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Water Quality Management Studies



TECHNICAL REPORT ACF 80-10 (FINAL REPORT)

AD A 104408

LAKE SEMINOLE APRIL - NOVEMBER PHASE I

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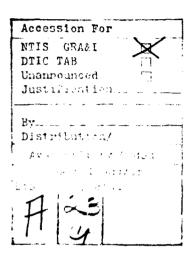
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WATER QUALITY MANAGEMENT STUDIES

LAKE SEMINOLE

April-November 1978

Technical Publication ACF80-10 (Final Report)

For Further Information Contact
US Army Corps of Engineers
Environmental Quality Section
PO Box 2288
Mobile, AL 36628

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ABSTRACT

This document presents the results of a nine month water quality study in Lake Seminole located partially within each of three states: Georgia, Florida, and Alabama. Meteorological, hydrological, sediment and physical, chemical and biological water quality data were obtained at a total of 19 main sampling stations in Lake Seminole, the Chattahoochee, Flint and Apalachicola Rivers, Spring Creek and Fish Pond Drain during 6 sampling cycles from April through November, 1978. Limited sampling and analyses were also performed at 5 special sites. Sampling and analytical methodologies are summarized and a brief review and analysis of the findings, including identification of major water quality problems and recommendations for future studies, are presented. The detailed results are included in attached appendices. Where appropriate, the data generated were submitted to the EPA's STORET System.

OBJECTIVES

The overall objectives of the Lake Seminole Water Quality Management Study were to a) establish base line conditions for future comparisons; b) identify water quality-environmental problems; c) collect data to allow guidance for reservoir controldischarge water quality relationships; and d) collect data that will provide conditions to facilitate coordination with state agencies to implement watershed pollution control.

Those objectives were met by taking samples for physical, chemical and biological parameters in Lake Seminole and its major tributaries, the Chattahoochee River, and the Flint River as well as the lake's outfall, the Apalachicola River. The samples were analyzed using standard analytical techniques, and the data generated were stored in the Environmental Protection Agency's (EPA) Data Storage and Retrieval (STOREI) system.

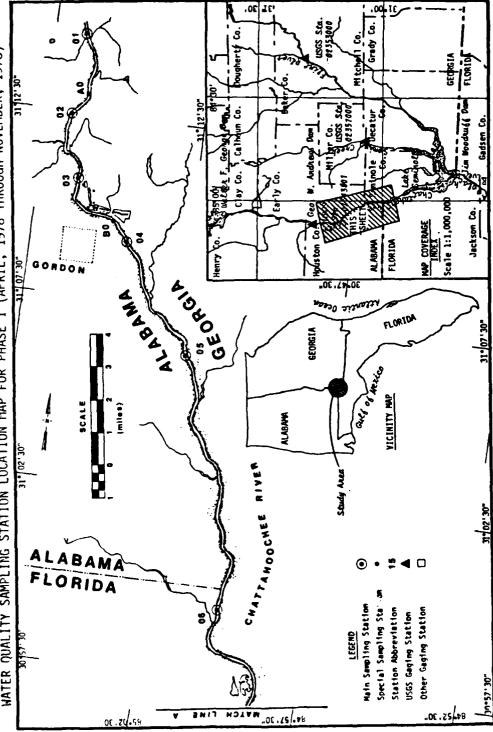
INTRODUCTION

Jim Woodruff Lock and Dam is located on the Apalachicola River at Mile 107.6 (173.2 km.), about 305 meters downstream from the point where the Flint and Chattahoochee Rivers unite to form the Apalachicola River. The structure is an earthfill dam with a concrete fixed ~ crest spillway, a center channel spillway with 16 vertical lift gates 12.2 m long and 9.3 m high and a side channel navigation lock 25 m wide. The dam crosses the Florida-Georgia border with about 457 meters of the overflow dike being located in Dacatur County, Georgia, and the remainder of the structure being in Gadsden and Jackson Counties, Florida. The primary purposes of the structure are to aid navigation in the Chattahoochee River upstream to the George W. Andrews Lock and Dam at Mile 47 (76 km.), in the Flint River to Bainbridge, GA about 48 km. upstream and downstream in the Apalachicola River, and to generate electric power. Other stated benefits include the regulation of streamflows, public recreation and fish and wildlife conservation. Construction of the project was initiated in September, 1947. The lock was opened for navigation, and impounding of water in the reservoir was begun in May, 1954. The power plant was placed in operation and the pool was considered full when it reach elevation 77 ft. (23 m) msl in February, 1957 (USACOE, 1972).

Lake Seminole, formed by the impoundment behind the Jim Woodruff Dam, is located partially within each of three states: Georgia, Florida, and Alabama as shown in Figure 1. The reservoir has a total drainage basin area upstream of the dam of 44,630 sq. km., of which approximately 51 percent is tributary to the Chattahoochee River and 49 percent tributary to the Flint River. The reservoir consists of two major impoundment arms, the Flint and Chattahoochee, and two minor impoundment arms, Fish Pond Drain and Spring Creek, both of which are tributary to the Flint River Impoundment. The reservoir has a surface area of 152 sq. km. and a total volume of 439 million cubic meters at the normal pool elevation of 77.0 feet (23 m) msl. The pool extends up the Chattahoochee River 75.2 km. to the George W. Andrews Lock and Dam and up the Flint River 76 km. (USACOE, 1972).

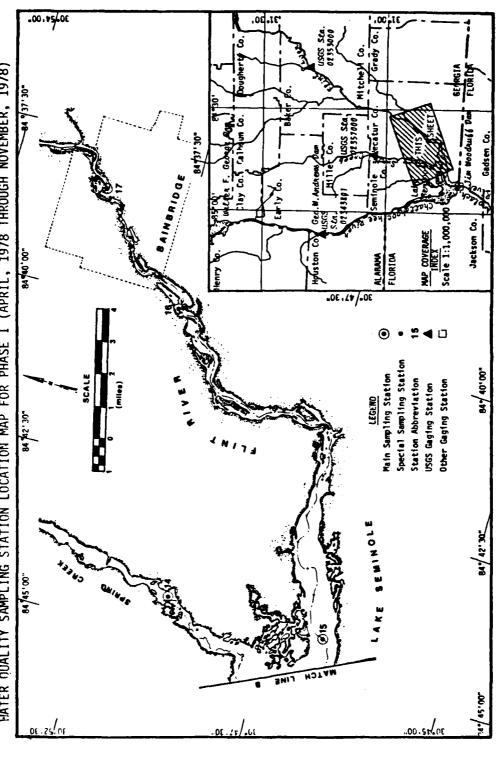
The Flint River has a total length of approximately 560 km. and a total drainage basin area of some 21,900 sq. km. The basin extends about 346 km. from north to south and averages roughly 64 km. in width. The headwaters of the Flint River are in the hilly region of the Piedmont Province, in the vicinity of the Atlanta Airport at an elevation of approximately 305 m. Seventy miles downstream from its source the river flows through the Pine Mountain District of the Greenville Plateau. The river through this stretch descends at a rate of approximately 0.04 percent up to the Fall Line at Flint River Mile 286 (460 km.). At the Fall Line the river drops rapidly over a shoal, and for 64 km. downstream. Downstream of Flint River Mile 220 (354 km.) the river flows

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY WATER QUALITY SAMPLING STATION LOCATION MAP FOR PHASE I (APRIL, 1978 THROUGH NOVEMBER, 1978) FIGURE 1



11.00 -0E.15-19 FINE FLORIDA LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY WATER QUALITY SAMPLING STATION LOCATION MAP FOR PHASE I (APRIL, 1978 THROUGH NOVEMBER, 1978) Broodings por Gadsen Co. CHATTAHOOCHEE 30752'30" . S SCALE Jackson Co. Scale 1:1,000, NAP COVERAGE DRAIN "St OHO FIGURE 1 (continued) ⊚ Special Sampling Station Main Sampling Station Station Abbreviation Other Gaging Station USGS Gaging Station 30./47.30 • **₽** ⊙ FLINT RIVER COCK & DAM GE ORGIA LORIDA .0E.2\$1.18 "OE . TA / *AB

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY HATER QUALITY SAMPLING STATION LOCATION MAP FOR PHASE I (APRIL, 1978 THROUGH NOVEMBER, 1978) FIGURE 1 (continued)



through the Upper Coastal Plain of southwest Georgia until it joins the Chattahoochee River in the Lake Seminole impoundment (USACOE, 1976).

The average annual flow in the Flint River at Newton, Georgia (see Figure 1, insert) for the period of record 1938-1950 and 1956-1973 is $202 \text{ m}^3/\text{sec}$, with a minimum flow of $22.4 \text{ m}^3/\text{sec}$ which occurred on both Oct. 20, and Nov. 10, 1940 and a maximum flow of 1870 m³/sec which was recorded on March 9, 1966 (USGS, 1979).

The Chattahoochee River has a total length of approximately 1200 km. and a total drainage basin area of 22,700 sq. km. The basin extends about 410 km. from north to south. The headwaters of the Chattahoochee River are in the rugged, wooded Blue Ridge Mountains of Northern Georgia. Downstream from this area the river flows through the hills of the Piedmont Province which range in elevation from 366 m in the foothills of the Appalachian Mountains to approximately 183 m at the Fall Line. Downstream of the Fall Line the river flows through the Upper Coastal Plain until it joins the Flint River in the Lake Seminole Impoundment.

The Walter F. George Lock and Dam, located upstream of the Lake Seminole Impoundment on the Chattahoochee River at Mile 75 (121 km.) is operated as a peaking power plant and as a result there is considerable short term flow variation through the Chattahoochee River Impoundment of Lake Seminole. The average annual flow at Walter F. George Lock and Dam near Columbus, GA (see Figure 1, insert) for the period of record 1929-1978 is 192 m³/sec, with a minimum flow of 8.3 cfs which occurred on Oct. 23, and Nov. 14, 1931 and a maximum flow of 4110 m³/sec which occurred on Feb. 26, 1961 (USGS, 1979).

The Apalachicola River, now formed by the discharge from Jim Woodruff Dam, was originally formed by the confluence of the Flint and Chattahoochee Rivers in the extreme southwest corner of Georgia. The river is bounded on both banks by wetlands except for the upper 40 km. stretch which is bounded on the east by the Apalachicola River Bluff formation. The Mariana Lowlands extend from the western bank of the Apalachicola westward past the border of the basin and south to the Western Highlands which cut across the middle-western portion of the basin. The Tallahassee Hills occur on the eastern side of the Apalachicola from the Georgia border southward to the Coastal Lowlands. The Coastal Lowlands comprise the entire lower portion of the basin.

The river below Jim Woodruff dam decends at a rate of approximately 0.009 percent. The power plant at the Jim Woodruff Dam is a "run of the river" plant which operates around the clock except when occasional high flows reduce the available operating head causing the plant to be non-productive. There is no flood control storage available in the reservoir (USACOE, 1972). The average annual flow at the dam is 635.8 m³/sec for the period of record Oct., 1928 to 1977, with a minimum flow of 140 m³/sec which occurred Oct. 27, 1954 and a

maximum discharge of 8300 m^3/sec which occurred on March 20, 1929 (USGS, 1978).

METHODS AND TECHNIQUES

Field Procedures

Sampling Site Locations

Sample site locations were specified by the U.S. Army Corps of Engineers (USACOE), Mobile District. The classification of sampling stations for the purpose of specifying field measurement, sediment and/or Corbicula sampling procedures was based in part on the total width of the cross section, the accessibility and submergence of the overbank areas as well as the inundation of the natural levees at normal pool stage. The sampling sites are shown on Figure 1, and their locations and their classifications as to river or lake station are tabulated in Table 1.

Sampling and Analytical Methodology

A complete sampling schedule showing the parameters sampled and sampling dates is shown in Table 2. A summary of the station parameter sampling schedule is shown in Table 3. A summary of the sampling methodologies, including respective maximum allowable holding times, sample container and preservation techniques as well as analytical methodologies employed and reported detection limits for the water quality parameters sampled during the course of this study can be found in Table 4.

Field Measurements

Dissolved oxygen (D.O.), pH, temperature, and specific conductance were measured at each station, one meter below the surface during every sampling cycle. To define the extent of the mixing within the river, D.O., pH, specific conductance and temperature were also sampled at depths of 0.33 meter below the surface and 1.0 meter above the river bed at midstream and within the littoral zone of both river banks at river stations 01 thru 07, 12, 14, 16, 17, 18 and 19 during the first and fourth sampling cycles (4/17-21/1978 and 8/14-17/1978). More extensive sampling including the measurement of Oxidation-Reduction Potential (ORP) at stations 7, 11 and 15 was performed during cycle 4 (8/14-17/1978) in order to develop complete cross sectional isopleths for these parameters. To define stratification, D.O., pH, specific conductance, temperature and ORP were vertically profiled at stations 07, 08, 09, 10, 11, 13 and 15 during the sampling cycles. Secchi disc and 1% light transmission measurements were also measured in situ at each station.

The field instruments used to sample the <u>in situ</u> parameters are listed in Table 4.

TABLE 1

LAKE SEMINOLE MATER OUALITY MANAGEMENT STUDY SAMPLING STATION NAME, STORET CODE, LOCATION, TYPE AND DESCRIPTION FOR PHASE I (APRIL, 1978 THROUGH NOVEMBER, 1979)

Stato	Station Mame	location	Туре	Description
Abbrev.	STORE T Code			
<u>و</u>	131.501	Chattahonchee River MP 45.5	River	Chattahoochee River, 1.2 miles (1.9 km) downstream of the George W.
20	131,502	Chattahonchee River MP 42.6	River	Chattahonche River, 1.4 miles (2.25 km) downstream of power plant, 1 on miles (1.51 km) unstream of confinence with Cedar Greek
63	131 503	Chattahuochee River MP 40.3	River	Chattahoochee River, 0.4 miles (0.64 km) upstream of Great Morthern Baser Mill Anch
25	131.504	Chattahoochee River MP 37.5	River	Chattahoochee River, 0.3 miles (0.48 km) upstream of Gordon Landing
5	137,505	Chaltahoochee River MP 33.3	River	Chattahoochee River, 0.3 miles (0.48 km) upstream of Navy Yard Landing
86	131,506 121,507	Chattahonchee River MP 25.0 Chattahonchee River MP 11.0	River	Chattahoochee River, 1.1 miles (1.77 km) upstream of may. 31 or oge Chattahoochee River, 3.2 miles (5.15 km) downstream of channel to
8	121.508	Chattahoochee River 0.2 mile SW MP 9.1	Lake	Chattahord Landing Co. 2 miles (0.32 km) southwest of milepoint 9.1;
6	131509	Lake Seminole-Chattahoochee River Impoundment NUM 4.8	Lake	Cut Out of the Three Siver Impoundment, 1.0 miles (1.61 km)
2	121510	Lake Seminole-Chattahoochee River Impoundment CAN 3.9	Lake	notherst of the first where state our out and the first lake (2.41 km) horth of Smeads Landiahoochee River impoundment, 1.5 miles (2.41 km) north of Smeads Landiah boat ramp; 0.1 miles (0.16 km) south of can
=	121211	Lake Seminole-Chattahoochee River Impoundment MUM 0.6	Lake	out of the main channel Lake Seminole - Chattahoochee River Impoundment, 0.6 miles (0.97 km) north-northewest of the Jim Woodruff Dam lock: MJN 0.6
21	134512	Lake Seminole-Fish Pond Drain impoundment	River	Lake Seminole - Fish Pond Drain Impoundment Arm, 1.8 miles (1.6 km) northeast of the Georgia SR 223 bridge. River mile index mileage northeast of the Georgia Paragonal Strain and Paragonal Strain an
13	13(513	Lake Seminole-Flint River Impoundment CAN 5.5	Lake	stream channel. Lake Seminole - Flint River Impoundment, 0.6 miles (0.97 km) north of the Flint River Park boat ramp; 100 meters north of can 5.5, out
<u>=</u>	131514	Lake Seminole-Spring Creek Impoundment SM SR 253	River	Landing Community Court Spring Creek Impoundment, 2.0 miles (3.22 km) south southwest of the Georgia SR 253 bridge. River mile index mileage to confinence with the Fint River is estimated along the original stream.
15	131.515	Lake Seminole-Flint River Impoundment MP 9.4	Leke	channel Lake Seminole - Flint River Impoundment, 1.8 miles (2.9 km) west of Hutchinson's Ferry Landing boat ramp

TABLE 1 (continued)
LAKE SEMINOLE MATER OUALITY MANAGEMENT STUDY
SAMPLING STATION NAME, STORET CODE, LOCATION, TYPE AND DESCRIPTION FOR PHASE I
(APRIL, 1978 THROUGH NOVEMBER, 1978)

	Description	River Flint River, 0.6 miles (0.97 km) upstream of Fourmile Creek confluence		Nashville Railroad bridge, NUN 104.4 River Abalachicila River 1100 mateur channels and services		River Lake Seminole - Fish Pond Drain Immuniduest Arm 30 meters as		Lake Lake Seminole-Filmt River impoundment, 50 meters west of the boat ramp	River
Location		Flint River MP 24.0 Flint River MP 29.0	Apalachicola River NUN 104.4	Apalachicola River MP 101.5	Chattahonchee River MP 43.4 Chattahoochee River MP 38.2	Lake Seminole-Seminole State Park Beach	lake Ceminal Photostate and and	The control of the co	Lake Seminole-Chattahoochee River Impoundment NUN 5.2
Station Name	STORE T Code	131 S16 131 S17	121.518	121519	13t SA0 13t S80	131.581	131.582	130 675	יזרזני
Stati	Abbrev	22	Œ	61	2 2	18	B 3	t	

TABLE 2

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
WATER QUALITY PARAMETER SAMPLING SCHEDULE FOR PHASE I
(APRIL, 1978 THROUGH NOVEMBER, 1978)

	L	5	ampling (ycle	· · · · · · · · · · · · · · · · · · ·	
	1	2	3	4	5	6
Parameter		Samp	ling Date	s (1978)		
	4/17-21	6/5-7	7/17-20	8/14-17	9/25-27	11/28-30
Meterological Data						
Air Temperature	X .	X	x	х	x	x
Cloud Cover	X	X	X	X	X	X
Wind Velocity Wind Direction	X	x	X	X X X	X	X X X
I. Water Quality Sampling					,	"
Hydrological Data						
Total Depth	x	х	x	x	x	х
Stream Velocity	x	X	X	x	х	x
Wave Heinht	Ϊ	Х	x	X	Х	χ̈́
Current Speed	X	X	X	X X X	X	X X X
Current Direction	X	X	X	X	· X	X
Physical Data	ļ					1
Miscellaneous						i
Cross-Section Loc	X	X	X	x	х	X
Sample Depth	X	X	X	l X	X	X X X
Secchi Disk Transparency) X	X	X	l x	X	X
Depth of 1% Surface Light	X)	X	\	X	, x
Field Measurements	ł			<u> </u>		}
Hater Temperature	X	x	X	X	X	l x
Specific Conductance	X	X	X	X	X	l x
Oxidation Reduction Potential	X X X	X	X	X X	χ̈́	X X X
Dissolved Oxygen, Electrode pH	l x	X) x	X	X	J X
Laboratory Data		Î	^	^		^
	1			ł	ļ	
Color	X	X	X	X	X	X X
Turbidity, Hach Turbidimeter Total Filterable Residue	1 0	X	X	X	X	l X
Total Nonfilterable Residue	Î	l î	Î	l û	l î	Î
Chemical Data	, "		"] "	, "	,
Minerals and Metals						
Alkalinity	x	l x	l x	×	l x	l ,
Chloride	1 ^	1 ^	^	l x	1 ^	X
Sulfate, Dissolved	l x	X	X) x	X	l û
Sulfide, Total		Х	X	X	X	1

TABLE 2 (continued)

		s	ampling C	ycle		
	1	2	3	4	5	6
Parameter		Samp	ling Date	s (1978)		
	4/17-21	6/5-7	7/17-20	8/14-17	9/25-27	11/28-30
Chemical Data						
Minerals and Metals						
Calcium, Total				X X		X X
Hardness, Total Iron, Dissolved	l x	l x	l x	x̂	Ιx	l î
Iron, Total	l x	Î	Ιŝ	Ϊ́χ	l ŝ	Ιŝ
flagnesium, Total	1	}	}	X)	X
Manganese, Dissolved	x	Х,	X	l x	X	i x
Manganese, Total	X	X	X	X	X	ΪX
Potassium, Total	ŀ		l	X	l	X
Sodium, Total		١	۱	X		X
Zinc, Total	X	X	X	X	X	X
Nutrients				ļ		
Carbon, Dissolved Organic	X	X	X	X	X	X
Carbon, Total Organic	X X X	X	X	X	X	X
Carbon Dioxide	Į X	X	X	X	X	X
Mitrogen, Total Ammonia	l X	X	X	X	X	X
Nitrogen, Nitrate + Nitrite	X	X	X	X	X	X X
Nitrogen, Total Inorganic	j X	۸ .	1 ^	1 0	^	I ≎
Nitrogen, Total Kjeldahl	1	I	İ	1 0	ļ	l û
Nitrogen, Total Organic	ŀ	I	ļ	l û	l	l ŷ
Nitrogen, Total Orthophosphate, Dissolved	X	l x	X	X X X	l x	X X X
Phosphorus, Total) x̂	x̂	î	x̂) x	x
Biological Data			1	•	l	İ
Bacteriological Data						
		X	l x	x	l x	
Fecal Coliform Fecal Streptococci	i	Î	x̂	Ŷ	l Ŷ	1
FC/FS Ratio	1	î	x	X	X	
II. <u>Sediment Sampling</u>						
Mechanical Data			i		1	
Carre And Tale	1	1		x		
Sieve Analysis Hydrometer Analysis				x		
Physical & Chemical Data						
Physical Data						
Volatile Solids				x		

TABLE 2 (continued)

Í	L	S	ampling C	ycle		
Parameter	1	2	3	4	5	6
		Samp	ling Date	s (1978)		
	4/17-21	6/5-7	7/17-20	8/14-17	9/26-27	11/28-30
Physical & Chemical Data (continu	ed)					
Miscellaneous Chemical Data]] 			
Carbon, Organic	}	1	İ	x		
Nitrogen, Total Kjeldahl	1	Ì	İ	x		ł
Oil & Grease	Į.			X		1
Phosphorus, Total		[İ	X		
Heavy Metals	ł		1	}		
Arsenic	ł	ł	1	x		ļ
Cadmium	1		1	χ̈́		l
Chromium	1	}	ł	X	•	ļ.
Copper	1	ł	1	ΪX	l	ì
Iron	ł	l	ł	X X X X	ŀ	}
Lead	1	1		l x		1
Manganese	1	ł	1	l x	•	ł
Hercury	1	i	}	X	1	<u> </u>
Nickel	1	ł	ì	X	}	}
Zinc	j	1	Ì	X		İ
Chlorinated Hydrocarbons						
Aldrin	ì	1		х		ļ
Aroclor 1242	1	1	i	} x	ì	ł
Aroclor 1254	I		i	X X X X X X	l	1
Aroclor 1260	1	l	l	X	ł	1
Benzene Hexachloride	}	1	1	X	1	1
BHC-Alpha Isomer	1	į.	Í	X	ł	l
BHC-Beta Isomer	1	}	ļ	X		I
BHC-Gamma Isomer	i	1	(X	1	ł
Chlordane	1	1	l	X	Į.	
2,0 D	i	İ	1	X	l	ł
P,P' DDD	l	l .	l	X	1	
P,P' DDE		í	Í	X	ł	l
O,P' DDT	1	1	ì	X		ļ
P.P' DOT	į.	í	l	X	i	i
Dieldrin	1	I	1	[X	ļ	1
Endothol	i	1	1	(X	į.	1
Endrin	1	ł		X	1	
Endrin Aldehyde	1	1	1	X X X X X X	Í	1
Glyphosphate	1	}	1	1 5	Į.	1
Heptachlor	1	1	1	5	1	(
Heptachlor Epoxide	1	1	ſ	1 3	1	ŀ
MethoxychTor		ĺ	{	X	í	ſ
Mirex Pentachlorophenol		}	1	X	J	}
renegation options	1	1	1] "		

TABLE 2 (continued)

		S	ampling C	ycle		
Daysamaday	1	2	3	4	5	6
Parameter		Samp	ling Date	s (1978)		
	4/17-21					11/28-30
III. Corbicula Tissue Analysis						
Physical & Chemical Data	ľ		i			
Heavy Metals]		Ì]]
Arsenic	<u> </u>			X		
Cadmium	ļ.	1	1	X	l	1
Chromium	ł	į į	}	X	ł	l
Lead	1	1	l	X X	l .	ł
Mercury		Į.		l X	i	l .
Selenium	1	l	}) X	ł	}
Zinc	1			×	ļ	
Chlorinated Hydrocarbons	1	Į	[Į	
Aldrin	1	1	Ì	Ιx	ļ	l .
Aroclor 1242	ļ	1		X		ì
Aroclar 1254	ł	}	ļ.) x	}	}
Aroclor 1260	1	1		l x	1	1
BHC-Alpha Isomer	1		l	ł x		i .
BHC-Beta Isomer	1	1	Į	į x	ļ	1
BHC-Gamma Isomer	1	ì]) x	1	1
Chlordane Chlordane	1	1	1	X		
P.P' DDD	1	1	ł	X	1	
P.P' DDE	[1	ſ	(x	1	1
O,P' DDT	1	1	1	X	i	1
P.P' DDT	1	1	ì	i x	ì	1
Dieldrin	1	1	ł	X	l	l
Endosulfan Sulfate	ì	1	ł) x	l l	1
Heptachlor	1		1	l x	1	Į.
Heptachlor Epoxide	1	1	ł	l x	1	ł
Methoxychlor	!	1	1	X	ľ	ſ
Mirex	1		1	X X X X X X X X X X X X X X X X X X X	ł	ł
PCB	1	1	j) x	j	J
Pentachlorophenol		1]	X	1	1
Toxaphene	1	1	1	X		
IV. Biological Data (Composite Samples	<u>)</u>	1		ļ		1
Algal Growth Potential (Before ar	d After A	utoclay	<u>/ing)</u>)		
Nitrogen, Total Ammonia	l x		X			
Nitrogen, Total Kjeldahl	X	i	X	1		1
Nitrogen, Nitrate + Nitrite	X	1	X	I		1
Orthophosphate, Dissolved	l X		l x	l		ł
Phosphorus, Total	X	1) X	1		1
pH, Lab	X	1	X	}		1
Specific Conductance	X	1	X	I	X	1

TABLE 2 (continued)

		Si	empling C	ycle		
_	1	2	3	4	5	6
Parameter		Samp	ing Date	3 (1978)		
	4/17-21	6/5-7	7/17-20	8/14-17	9/25-27	11/28-30
IV. Biological Data (Continued)	•	1	i '			
Algal Counts		ŀ				
12-Day Count	x	ì	x .	i	x	1
17-Day Count, Std. Dev.	X	ŀ	1 1		X X Y	ŀ
14-Day Avg. Count	<u>*</u>	ŀ	l i	i	i š	İ
14-Day Count, Std. Dev.		İ	1 ^			l
Biomass Measurements	1	}	1	}		1
Benthic						l
Biomess, Renthic	x	X	×	×	×	×
Eurhotic Zone			1			
ATP-Adenosine Triphosphate	X .	X] x	X X X] x	Z X X
Bioness, Flankton	X X X	X	l i	,	X	
Chlorophyll-a	l 3	🔅	;	💲	1 :	Ŷ
Chloroshyll-5 Chlorophyll-5	l Ŷ	l î	l î	Î	l î	1 2
Macroinvertebrates	-		"	1 "	1 -	
VEC. STREET SEES		l	l	İ		
benthic	X	•	X	l _	X	l
Hester Dendy		R] •	, R		I
(Pr?laced: R=Retrieved)	f	i	i	l	1	1
Senthic Diversity	ļ	l		1		
Shannon-Heaver DI (Base 2.0)		1	x		X	
Plankton						
Phytoplankton	, z	x	X X	ã	ž	į
Zooplankton	X	X	I I	X	l x	l z

TABLE 3
LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
STATION SAMPLING SCHEDULE FOR PHASE I
(APRIL, 1978 THROUGH NOVEMBER, 1978)

	_						3	r er	(A) Main Sampling Stations	1 fng S	tatfo	1		ł	}	ļ		,	,
	Parameters*	6	05	8	2	95	ક	6	8	-	10 1	11 12	129 13	₽	13	92	12	18g	<u>\$</u>
		×	*	*	*	*	×	×	×	×	×	×	×	×	×	*	*	×	*
<u>.</u> .	x						•												
	Hydrological Data	×	×	*	×	×	×	×	×	×	×	*	×	×	×	×	×	×	×
	Physical Date																		
	Miscellaneous	×	*	*	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	Field "easurements																		
	 Surface (or Mid-Depth)² Surface and Bottom³ 	* *	× >	× >	× ×	× >	× ×	×	×	×	×	* *	×	××	×	××	> ×	× ×	××
	3. Vertical Profile 4. Complete Crees. Sections	•	•	•	•	<	•	××	×	×	×	**	×	•	× ×				
	Laboratory Data							•	7			c c			•				
	1. Surface (or Mid-Depth) 2. Bottom ⁵	×	*	*	×	*	×	××	×	××	××	*	××	×	××	×	×	*	×
	Chemical Data																		
	1. Surface (or Mid-Depth) 2. Rottom ⁵	*	*	×	×	×	×	××	*	××	ĸĸ	*	××	×	××	×	×	×	×
	Riplogical Mata ⁶ (Bacteria)	~	*	×	*	×	×	×	*	×	×	~ ×	×	×	₩.	×	×	×	×
Ξ.	Sediment Sampling	*	×	×	×	*	×	×	×	×	×	×	×	*	*	*	×	×	×
Ë	Corhicule	*		×	×				×			*		×	×	*			*

TABLE 3 (continued)

		61			×		×	×	×	×									
		18		×	×		×	×	×	×									
		11			*		×		×	×									
		7		×	×		×	×	×	×									
		15		×	×		×	≍.	×	×									
		14		×	×		×	×	×	×									
_		13		×	×		×	×	×	×									
<u> </u>		15		×	×		×	×	×	× ,	•								
T S1 78)	tions	=		*	*		×	×	*	×									
EAS 61	og Sta	10		×	×		×		×	×									
AGE ER,	1 0	8		×	×		×	*	*	×									
E 58	fa Sa	8			*		×		×	×									
F ¥ S	(A) Hain Sampling Stations	07		×	*		×	×	×	×									
SE SE SE SE SE SE SE SE SE SE SE SE SE S		90		×	*		×	×	×	×									
R O S O		35			×		×	×	×	×	Suc	FE ⁷	×		×		×	×	
ATE LIN 8 T		8			×		×	×	×	×	(B) Special Stations	8	×		×				×
197 197		6			×		×	×	×	×	ie)	8	×		×				×
IL SEL		20			*		×	×	×	×	Spec	8	×		×		*	×	
E SEMINOLE WATER QUALITY MANAGEMENT S STATION SAMPLING SCHEDULE FOR PHASE I (APRIL, 1978 THROUGH NOVEMBER, 1978)		10			*		×	> :	×	×	9	A 0	×		*		*	×	
LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY STATION SAMPLING SCHEDULE FOR PHASE I (APRIL, 1978 THROUGH NOVEMBER, 1978)		Parameters ¹	IV. Miningical Data (Composite	Alnal Growth Potential	Gionass Teasurements	'lacroinvertebrates	Benthic	Hester Dendy	Renthic Diversity	Plankton			Meterological Data	I. "later Quality Data	Hydrological Data	Physical Data	Field Mexiconnects	Laboratory Data	Biological Data (Bacteria)

TABLE 3 (continued)

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY STATION SAMPLING SCHEDULE FOR PHASE I (APRIL, 1978 THROUGH NOVEMBER, 1978)

MOTES:

See Table 2 for a Complete List of Parameters Sampled.

Unless otherwise noted, taken at mid-stream one meter below water surface or at mid-depth where total depth was less than 10 ft.

Umless otherwise noted, all narameters except ORP sampled 0.3 meters helow water surface and 1 meter above bottom surface at mid-stream and left and right littoral zone during Cycles 1 (4/17-21/1978) and 4 (8/14-17/1978) only.

Originally scheduled to be sampled.

linless otherwise noted, taken 1 meter above bottom during Cycles 3 throunh 6 only.

5. Imless otherwise noted, taken 0.3 meters below water surface.

7. Sampling at Station FF initiated during Cycle 2 (6/5-7/1978).

Only Turbidity.

See text, Water Quality Sampling, p. 26.

TABLE 4

LAKE SEMINOLE MATER QUALITY MANAGEMENT STUDY WATER QUALITY PARAMETER STORET CODES, MAXIMUM HOLDING TIMES, PRESERVATION TECHNIQUES,

Nater Quality Sampling Physical Data		Limit Units
Mone		
Kone Kone		
Kone Kone Kone Kone Kone Kone Kone Kone		
Mone None .	#13, Secchi disk, 20 cm. Protomatic Instruments underwater photometer	**
None None None None None None None Y days P.G Z4 hrs P.G Z4 hrs P.G Z4 hrs P.G Z4 hrs P.G Z4 hrs P.G Z4 hrs P.G Z4 hrs P.G Z4 hrs P.G Z4 hrs P.G Z4 hrs P.G Z4 hrs P.G Z4 hrs P.G Z4 hrs P.G Z5 mo P.G Z6 mo P.G Z6 mo P.G		
Mone None None None None 1 Non	Yellow Springs Instr.	
Mone None None None 7 days P, G 7 days P, G 7 days P, G 7 days P, G 7 days P, G 7 days P, G 7 days P, G 6 mo P, G 6 mo P, G 6 mo P, G 6 mo P, G 6 mo P, G	U.O. meter, 518 Yellow Springs Instr. SCT meter, 33 Photovolt pH meter, 126A & ORP	umbo/cm @25°C mrv
24 hrs P, G 7 days P, G 7 days P, G 7 days P, G 7 days P, G 7 days P, G 7 days P, G 7 days P, G 6 mo P, G 6 mo P, G 6 mo P, G	Yellow Springs Instr., D.O. 0.1	.1
24 hrs P.G 7 days P.G 7 days P.G 7 days P.G 7 days P.G 7 days P.G 7 days P.G 7 days P.G 7 days P.G 6 m0 P.G 6 m	meter, 518 Photovolt pH meter, Model 1269	std. units
24 hrs P.6 7 days P.6 7 days P.6 7 days P.6 7 days P.6 7 days P.6 7 days P.6 6 mo P.6 6 mo P.6		
7 days P.6 7 days P.6 7 days P.6 7 days P.6 24 hrs P.6 6 mo P.6 6 mo P.6		<u>:</u>
Metals 24 hrs P,G 7 days P,G 7 days P,G 24 hrs P,G 6 m0 P,G 6 m0 P,G	Springs Instr. SCT meter, 33 93 94	umbo/cm mg/1 mg/1
Metals 24 hrs P.G 7 days P.G 7 days P.G 24 hrs P,G 6 m0 P,G 6 m0 P,G		
24 hrs P.G. 7 days P.G. 7 days P.G. 24 hrs P.G. 6 mo P.G		
7 days P.G 7 days P.G 24 hrs P.G 6 m0 P.G 6 m0 P.G	ڼ	mg as CaCO_/1
24 hrs P,G 6 m0 7 P,G 7 P,G 8 P,G 8 P,G	#1, p. 304 #1, p. 496	S. E
OF OF OF OF	11. p.	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	103	T
9 d o	Lalculated #3, p. 81, 110	0.050 mg Fe/1
	#3, p. 82, 110	T
ted 6 mo P,6	#3, p. 82, 114 #3, p. 81, 116	0.050 mg Mg/1
0.4 0.4	#3, p. 81, 116	
0 E 0	#3, p. 82, 143 #3, p. 82, 147	

TABLE A (continued)

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY WATER QUALITY PARAMETER STORET CODES, MAXIMUM HOLDING TIMES, PRESERVATION TECHNIQUES, ANALYTICAL METHODOLOGY AND DETECTION LIMITS FOR PHASE I (APRIL, 1978 THROUGH HOVEMBER, 1978)

STORET	Parameter	Holding Time	Container	Preservation Technique	Analytical Methodology	Detection	Units
	1. Water Quality Sampling	Sampling (continued)	(pa)				
	Mutrients						
00681	Carbon, Dissolved Organic Carbon, Jotal Organic	24 hrs	0.0	4°C, H2504 to pH <2	13, p. 236	2.0	555
00405 00610 00630	Carbon Dioxide Nitrogen, Total Ammonia Mitrogen, Nitrate +	24 hrs 24 hrs	9 0	4°C, H2SO, to pH <2	(4) (0) 159 (1) p. 620	0.00	Mg N/T
	Nitrite				feel and a feel	;	
00640 00625 00605	Mitrogen, Total Inorganic Mitrogen, Total Kjeldahl Mitrogen, Total Organic	7 days	P, G	4°C, H ₂ SO ₄ to pH <2	Calculated	151	
00600	Mitrogen, lotal Orthophosphate,	24 hrs	9,6	4°C, Filter on site	Calculated #3, p. 256	0.01	
9990	Dissolved Phosphorus, Total	7 days	9.6	4°C, H ₂ 504 to pH <2	#3, p. 249, 256	0.03	1/4 ga
	Biological Data						
	Bacteriological Data	3					
31616 31673	Fecal Coliform Fecal Streptococci	88 hrs 88 hrs	Sterilized Sterilized	0.4	#1, p. 937 #1, p. 944	11	MPN/100 m1
	II. Sediment Sampling				•		
	Mechanical Data						
	Sieve Analysis						-
80217	Bed Mtl (% Finer than	:	•	Mone required	A, 0 422-63	;	
80216	Bed Mtl (I finer than	:	a	None required	44, D 422-63	:	
80214	Bed Htl (% finer than	;	•	Mone required	#4, 0 422-63	;	
80213	Bed Htl (I finer than	;	•	Mone required	/4, D 422-63	:	
80208	8.70 mm) Bed Htl (T finer than 2.0 mm)	;	•	None required	#4, D 422-63	:	
	Physical & Chemical Data	Deta					
	Physical Data						
	Volatile Solids	14 days	a.	4•€	fs, p. 539	:	S total dry weight
	Miscellaneous Chemical Data	nical Date					
00687	Carbon, Organic Mitrogen, Total Kjeldahl Dil and Grease	14 days 14 days	<i>a</i> . <i>a</i> .	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	#6 #5, p. 469 #7, p. 42	0.000 0.000	gm C/kg dry wt. mg N/kg dry wt. mg/kg dry wt. mg P/kg dry wt.
1116.63	rnosphorus, rater	e (m) 1		Pac2. 10.			

TABLE 4 (continued)

LAKE SEMINOLE WATER NUALITY MANAGEMENT STUDY WATER QUALITY PARAMETER STORET CODES, MAXIMUM HOLDING TIMES, PRESERVATION TECHNIQUES, ANALYTICAL METHODOLOGY AND DETECTION LIMITS FOR PHASE I (APRIL, 1978 THROUGH NOVEMBER, 1978)

STORET	Darameter	Holding Time	Container	Preservation Technique	Analytical Methodology	Detection imit	Intes
		1			The control of the co		
	11. Sediment Sampling (c	(continued)					
	Heavy Metals						
01003	Arcenta	2	<i>e</i> .	MMO,	87	-	As/kg dry
01028	Cachini	0E	۵.	HWO.	. C.		Cd/kg
62010	Chromium		a	HNO3	84	~	Cr/kg dry
01043	Copper		۰.	HMO3	8	2	Cu/kg dry
01170	-roa		۰.	HW03	CC (~ `	Fe/kg dry
2010			- 6	HWO ₃	200	æ r	70/49 073
71921	Mercury	2 2	. 0	HWO 3	C 00	۰,	in the key dry we.
01068	Nickel		. م	HNO	0 00	ı e	Ni/ka dry
01003	2 tnc		۵.	HNO3	8		Zn/kg dry
	Chlorinated Hydrocarbons	ocarbons					
10111	Aldrin	2	e	frae 70	Ş		ţ
19499	Arocior 1242	Q	, 0	Freeze	9		
39597	Aroclor 1254	2	.	Freeze		9.1	dry.
39511	Aroclor 1260	2 1	.5 (Freeze	2:	0.1	ţ.
39343	Benzene Hexachloride		ي و	Freeze	2.5	0.1	Ď,
390/0	BHC-Aipha Isomer		ט פ	France 20	2.5	1.0	5
/C/ %	BHC-Beta Isomer RHC-Gamma *comer		.	T. 62.64		0.1	ug/kg dry wt.
39351	Chlordane	2	. 0	Freeze	2		, t
39731	2,4 0	<u>=</u>	9	Freeze	,	ć	. è
39311	000 .4.4	<u></u>	5	Freeze	6	~	5
39321	300 .4	Q	. ق	Freeze	€.		ģ
39306	0. V. 001	£ 1	ט ע	Freeze	64	0.5	ug/kg dry wt.
19301	Oieldrin	1	پ و	rreeze	2 4	0.5	5
,	Endothol	2 2	. .	France		0.7	MO/KG OFY WE.
39393	Endrin	2		Freeze		5.0	5 2
34369	Endrin Aldehyde	2	9	Freeze	6	 	5
	G1 yphospha te	_ E	9	Freeze	2	- -	Ę
39413		£ .	.	Freeze	64		ţ,
39423	Meptachior Epoxide	₽:	ر ي	Freeze	6		Ą
19461	Me thoxychior	Q 1	ى د	Freeze	<u>.</u>	0.5	Ę,
19065	Dentack Contacto	2 6	ت و	92993	2 0	0.1	Ď.
39403	Toxaphene	· —	, 0	Freeze	6	00	ug/kg ory wt.
	III. Corbicula Tissue Analysis	Jecte				;	•
	1						
	Physical & Chemical	Usta					
	Heavy Metals						
01004	Arsenic	:	9.4	Freeze	ä	0.1	
0461/	Cadmium	:	د د	Freeze	Ġ	0.02	Cd/kg wet
71936		: :	ت د د	Freeze	#10, p. 30	-0.	ž.
/1930	Mercury	: ;	ء د د	Freeze		 	5
01113	Selenium	;	20	Freeze	۵.	6.0	5 / E
71938	Zinc	:	9,9	Freeze	٠	.0.7	24/kg

TABLE 4 (continued)

LAKE SEMINOLE MATER QUALITY MANAGEMENT STUDY
NATER QUALITY PARAMETER STORET CODES, MAXIMUM HOLDING TIMES, PRESERVATION TECHNIQUES,
ANALYTICAL METHODOLOGY AND DETECTION LIMITS FOR PHASE I (APRIL, 1978 THROUGH NOVEMBER, 1978)

S Its			12 ten 54/62		ug/kg wet wt.	ng/kg wet wt.	ug/kg wet wt.	ug/kg wet wt.	ug/kn wet wt.	ng/ko wet wt.	61 61 61 61 61 61 61 61 61 61 61 61 61 6	on had be not	ug/kg wet wt.	ug/kg wet wt.	ug/kg wet wt.	ug/kg wet wt.	ug/kg wet wt.	ug/kg wet wt.	ug/kg wet wt.	ug/kg wet wt.	un/kg wet wt.				
Detection				; ;	S :	\$2	52	0.2	0.2	0.1	9.0	0.5	0.5	u	, u	n (6.5	v.	0.2	0.2	v	S	22	u n	w
Analytical Methodolony				• •	₹ ;	II .	Į.	ij	7 11	411	f11	£11	#13	,	4 0			111	4 11	111	111	f ₁₁	11	411	: .
ation					reeze	Freeze	Freeze	Freeze	Freeze	Freeze	Freeze	Freeze	Freeze	Fr00.70			Freeze	Freeze	Freeze	Freeze	Freeze	Freeze	Freeze	Freeze	Freeze
Preservation			teflon 11d wrapped	teflon lid wrapped	in aluminum foil teflon lid wrapped	in aluminum foil Leflon 11d wrapped	in aluminum foil teflon lid wrapped	in aluminum foil teflon lid wrapped	in aluminum foil Leflon lid wrapped	in aluminum foil	n aluminum foil	n aluminum foil	Letion lid wrapped in aluminum foil	teflon lid wrapped in aluminum foil	teflon lid wrapped	tellon lid wrapped	te flon lid wrapped	in aluminum foil teflon lid wrapped	in aluminum foil tellon lid brapped	in aluminum foil	n eluminum foil	in aluminum foil	terion iid wrapped in aluminum foil	teflon lid vrapped in aluminum foil	forlow lid wrapped in aluminum foil
Container	t Inued)		6, teflon	G. teflon	in alum G. teflon	in alum G, teflon	in alum G, teflon	in alum 6, teflon					G, terion in alum	6, teflon in alum	6, terlon	6. terlon	in alue 6. teflon	in alum G. teflon	in alum 6. teflor						G, Inflor
Holding	nalysis (con	ocarbons	0 ·	£	2		6	5	2				2	£	- 8	- 8	£	8	9				2	£	- E
Parameter.	III. Corbicula Tissue Analysis (continued)	Chlorinated Hydrocarbons	Aldrin	Aroclor 1242	Aroclor 1254	Aroclor 1260	BHC-41pha Isomer	RHC-Beta Isomer	BIC-Garria Isomer	Chlordan		300	A.V.	0,P' DOT	P.r. 001	Dieldrin	fromsulfan Sulfate	Heptachlor	Heptachlor Epoxide	'tethoruchlor		11168	80	Frntachlorophemol	Toxaphene
1 30015			39334	39497	39512	34670	39074	39298	39075	97.05		: ;	3.56	39319	1116	337.7	79355	يًا و ا	rru					13760	39407

TABLE 4 (continued)

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY WATER QUALITY PARAMETER STORET CODES, MAXIMUM HOLDING TIMES, PRESERVATION TECHNIQUES

	Parameter	Molding Time	Container	iner	Preservation Technique	E !	Analy	Analytical hethodology		Retection	Units
	IV. Biological Nata (Composite Samples)	iste Samp	les)	:							
	algal Growth Potential Before and After Autoclaving	al Before	and Aft	ter Auto	claving						
	Hitrogen, Total Ammonia Nitrogen, Total Kjeldahl	24 hrs 7 days	9 G		4°C. H.504	to pil <2 to pil <2	13, p.	159 175		0.01	£ £
	Witnesdam, Mitrate + Witnite	24 hrs	5,9	-	4°C, H2SO4		1, p.	620		0.01) (m
	Orthophosphate, Dissolved Phosphorus, Total	24 hrs 7 days	0 0	. •	4°C, Filter on site 4°C, H ₂ SO ₄ to pH <2		f3, p. 256 f3, p. 249,	256 249, 256		0.91 0.01	mg P/1
	pli Specific Conductance	None	တ္ ဇ		ر ب سور		#1, p.	460		: :	std. units umho/cm @ 29
33562	Algal Growth Potential	N/A	N/A	_	H/A		412, C.	#12, calculated (mean of 12 and 14 day counts with	f 12		ı
	41qal Counts	A/k	N/A		N/A		Coulte	no nutrients added) Coulter Hodel 7f Particle Counter) 1e Counter	: 9	mg/l um3/cell
	Biomass 'leasurements										
	Benthic										
	Biomass, Jenthic	None	•	10% For to pH 7	107. Formalin, (Μ/Na ₂ B ₄ O ₇ (s _{Oll})) (See Text) to pH 7.0-7.3), Rose Bengal	128407(sol)) ie Bengal	Se I	ext)		:	
	Euphotic Zone							•			
96602	ATP-Adenosine Triphosphate Riomace Planaton	5 To	Extract	freed	-20°C		72. p.	1043		01.0	หญ่/ไ ตุก/cu เฮ
32211 32212 32214	Chlorophyll-a Chlorophyll-b Chlorophyll-b	30 days 30 days 30 days	Filter immed Frozen, Filter immed Frozen, Filter immed Frozen	immed immed immed	Frozen, dark Frozen, dark Frozen, dark	ט ע ע	255	1030, 1032 1030, 1032 1039, 1932		0.00	1/6n 1/6n 1/6n
	Macroinvertebrates										
	Benthic										
	[senera]	Hone	•	105 Ford	malin, (w/Na .0-7.3).Rose	128477 (501)	418 (S	418 (See Text)		:	
22006	Bryozoa	None	۵	10' For	10" Formalin, (w/Na28407(501)	128407(501)	€18 (S	#18 (See Text)		_	No./som
757/19	Caddis	None	۵.	10% For	malin, (w/K	28497(sol)	. S) 81#	#18 (See Text)			MO./50 m
77918	Chaoborus	None	۵	10. For	10: Formalin, (W/Wa2Ba07(sol)	120407(501)	(S)	/18 (See Text)			#0 / va
12057	Chironomidae	Mone	۵	10% Fo.	malin, (w/%	128407(501)		018 (See Text)			
75024	Corbicula	None	•	10% For	10% Formalin, (W/Na28407(sol))	128407(sol)		#18 (See Text)		. ,	

TABLE 4 (continued)

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY WATER QUALITY PARAMETER STORET CODES, MAXIMUM HOLDING TIMES, PRESERVATION TECHNIQUES, ANALYTICAL METHODOLOGY AND DETECTION LIMITS FOR PHASE I (APRIL, 1978 THROUGH NOVEMBER, 1978)

			Container	Technique	Analyti	Analytical Methodology		L 181 E	FILS
	Macroinvertebrates	ites							
	Benthic (continued)	tinued)							
75027	Hexagenta	:lone	6	10% Formalin, (w/Ma28407(501)	2) 818 (S	ang (See Text)		-	Mo. / so
75015	Leeches	flone	9	Formalin, (W/Na28407(sol)		(200 Total)			
75915	Snails	None	800	Formalin, (w/Ma28407(sol)		בבובער		.	
75393	Sponges	None	.	to pH 7.0-7.3, Rose Bengal 10% Formalin, (w/Na ₂ B407(sol) to pH 7.0-7.3, Rose Bengal	S) 817	NB (See Text)			Mo./sq m
	Hester Dendy								
	Genera?	Mane	e 53	10% Formalin, (w/Na28407(sol) to pH 7.0-7.3, Rose Bengal	(See Text)	ext)		:	No./sq #
	Plankton								
	Phy toplank ton	۶i							
	General	None	35	Formalin, (w/Na2B407(sol)		:		•	<u> </u>
7130	Division Chlorophyta	None	36°	Formalin, (w/Na28402(501)		fit, 15, 16, 1/ (See lext)	lext)	? ·	
71322	Order Chlorococcales	None	2.5. L	Formalin, (w/Na2RAO7(sol)		FIG. 15, 16, 17 (See Text)	lext)	· ·	E .
71320	Order Cladophorales	None	.		114, 1	#14, 15, 16, 17 (See Text)	Text)	0	No./ml
71398	Order Tetrasporales	None	P 54	Formalin.	_	F14, 15, 16, 17 (See lext)	(ext)	9.	10.0E
11311		None	9 54			#14, 15, 16, 17 (See Text)	Text)	0.1	16 0./ 1 0
71302	Order Volvocales	None	7 54 C	pH 7.0-7. Formalin,	-	#14, 15, 16, 17 (See Text)	Text)	1.0	No./ml
71335		Mone	P to		114, 1	414, 15, 16, 17 (See Text)	Text)	1.0	No. /m]
11703		ş	, a		114. 1	914, 15, 16, 17 (See Text)	Text)	1.0	No./m]
				pH 7.0-7.3	114, 1	#14, 15, 16, 17 (See Text)	Text)	1.0	No./ml
8	Class sacinier topmyceae			pH 7.0-7.3	114, 1	#14, 15, 16, 17 (See Text)	Text)	1.0	No./m)
1 25	Class Chrysophyceae	e co		PH 7.0-7.3). Rose Rengal	114, 1	#14, 15, 16, 17 (See Text)	Text)	1.0	No./el
71432	Division Cyanophyta	None	ء 2	Formalin, (w/Ha29407(sol) pH 7.0-7.3), Gose Bengal	114. 1	#14, 15, 16, 17 (See Text)	Text)	1.0	₹0./m

TABLE 4 (continued)

LAKE SEMINOLE MATER QUALITY MANAGEMENT STUDY NATER OUALITY PARAMETER STORET CODES, MAXIMUM HOLDING TIMES, PRESERVATION TECHNIOUES, ANALYTICAL METHODOLOGY AND DETECTION LIMITS FOR PHASE I (APRIL, 1978 THROUGH NOVEBMER, 1978)

1 3,1	Paramter	Ting	Container	Preservation Technique	Analytical Methodology	Detection	Units
	Planting						
	Phytoplankton (c. tinued)	(hinued)					
21410	Inder Chamaestononales	None	P 51 F	5% Formalin, (w/Nap9407(sol)	1977 27 27 27 27		,
11031	Order Chroscoccales	None	5.5 2.7 2.7	5. Formalin, (4/1828-407(sol)	#14, 15, 16, 17 (See lext)	s: -	E / O
71.00	Order Unionspales	9	: : :::	to pl: 7.9-7.3), Rose geneal	#14, 15, 16, 17 (See Text)	1.0	10./m
,,,,,		,	. 23	to pil 7.0-7.3), Rose Dennal	#18, 15, 16, 17 (See Text)	1.0	No./m]
-	CIVISION LUGIEROPHYTA	auou	. S	PH 7.9-7.3), Rose Bennal	#14, 15, 16, 17 (See Text)	1.0	No./m
13,17	Division Pyrrophyta	None	7 52 E	5% Formalin, (W/Na2NaO/sol) to pil 7.9-7.3), Rose Bengal	#14, 15, 16, 17 (See Text)	1.0	No./m]
	Zoop lank ton						
	Conoral	Tone	5. 5.	5% Formalin, (w/Na29407(sol)	(Com Taxt)	5	3
71267	Phylum Arthropoda	None	54.	57 formalin, (W/Na28407(sol)	() X () () () () () () () () () () () () ()	10:0	
212"9	Larvae Crustacea	None	2.5 2.6	Formalin, (w/la28407(sol)	(See lext)	0.01	¥0. \
11201	Order () adocers	4	55	pil 7.9-7.3). Rose Bennal	(See Text)	0.01	₩./L
7	יון חבו רין מתורבו ב	ואסווב	101	to pit 7.0-7.3), Rose Bennal	(See Text)	0.01	No./L
51.217	Subclass Ostracoda	None	P 54.77	Formalin, (W/Na2R407(sol)	(See Text)		, c
1561	Order Copepoda	None	P 5% FC	5% Formalin, (W/NazBa07(sol)			
11761	Phylum Protozoa	None	7.50 7.50 7.50 7.50	to pH /.O-/.3), Rose Mengal 5% Formalin, (w/Na28407(sol)	(See Text)	0.01	₩./L
71259	Class Ciliata	None		to pii 7.0-7.3), Rose Bengal 5" Formalin, (w/iaz8a07(sol)	(See Text)	0.01	₩./
1361	Clace Caecodina	2	23	pli 7.9-7.3), Rose Bengal	(See Text)	0.01	₩0./L
3 :		, vol.	10.	to pil 7.0-7.3), nose Benjal	(See Text)	0.01	No. /L
0/21/	rayiim Potifera	4one	7 5 3 7 4		(See Text)	0.91	₩./٢
وسنيس	Zooplankton, Other	None	P 51 Fo	Formalin, (w/Nazikanz(sol) pi 7.9-7.3). Rose Rendal	(See Text)	5	ş

TABLE 4 (continued)

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY WATER QUALITY PARAMETER STORET CODES, MAXIMUM HOLDING TIMES, PRESERVATION TECHNIQUES ANALYTICAL METHODOLOGY AND DETECTION LIMITS FOR PHASE I (APRIL, 1978 THROUGH NOVEMBER, 1978)

MOTES: 1. P = Plastic or G = Glass or M/A = Not Applicable
2. Applies to the portion to be autoclaved
3. Holding time after processing, which shall occur within 7 days after collection.
Store at 4°C until processing.

References:

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- Meber, C.I., ed. 1973. Biological field and laboratory methods for measuring the quality of surface waters and effluents. National Environmental Research Center, U.S. Environmental Protection Agency, Cincinnati, OM. 171 pp.

All field instruments (see below) are calibrated against standards or as specified and provided with spare batteries and/or chargers before being sent into the field. In addition, appropriate standard solutions were sent to the field with the instrument. All instruments were rechecked upon return; necessary maintenance and/or provision for storage was accomplished as specified by the instrument manufacturer. When in use, instruments were calibrated prior to beginning a set of measurements and at a minimum of four-hour intervals with a final check at the end. Verification of calibration was run after every 10 samples or if any unusual reading was encountered. Any anomaly was recorded.

Instrument

Routine Calibration

Dissolved Oxygen Meter

Air calibration as specified. Calibrated versus Winkler titration if problems were suspected or after any membrane change.

pH Meter

Battery check and calibration against commercially available certified buffers.

Conductivity Meter

Calibrated daily against KCl solution 0.01 demal as specified in manual. Any deviation in reading from manual specifications was recorded in notes.

Temperature Functions

Checked against mercury thermometer daily. Any deviation was reported in notes.

Current Meter

Circuit check. Daily check of zero. Yearly factory recalibration.

In situ measurements were recorded along with weather conditions in the appropriate section in the field data notes on carbonless duplicate field record as shown in Figure 2. The notes were checked for completeness before leaving each station, and initialed by the observer.

Water Quality Sampling

Unless otherwise noted, water quality sampling followed the schedules summarized in Tables 2 and 3. During the second and subsequent sampling cycles special sampling station FE was located approximately 0.7 km. west of the location originally specified be-

FIGURE 2
LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
TYPICAL FIELD DATA RECORD SHEET FOR PHASE I
(APRIL, 1978 THROUGH NOVEMBER, 1978)

WATER AND AIR RESEARCH, INC. 6821 S.W. Archer Road Gainesville, Florida 32602 (904) 372-1500 Job: LS Phase: I	Total Depth (m) Station Sheet Total Depth (m) Station of Tome Station Sheet Of Time Station Loc (2 Station Loc (2 Station Loc (2 Station Loc (2 Station Loc (3 Station Loc (4 Station
IN SITU PARAMETERS	F12
	•
Cloud Cover (%)	Wind: Speed (MPH), Dir. (*From N)
Wave Height (m) Cu	rrent: Speed (fps) Dir. (*From N)
Secon Disk (W) 13 L	ight Pen. Depth (m) Air Temp. (C)
	pH Cond. (pmhos) DO (mg/1) + ORP (mV)
NET PLANKTON SAMPLES	<u> F 21 </u>
	Oblique Tow Angle
Grab or Tow or	Oblique Tow Angle Dist.(m)
Meter Reading: Start	Stop Time (sec)
1	(Sec)
_Boz_jar	-5% TOTEMITIE SOURTHON
HESTER DENDY SAMPLES	F22
Vesetian location (V Sum D	Rank Look linety)
	Bank Look Upstr) Buoy up or Float up
Placement Date 78	Retrieval Date 178
Contatura Nantania	-
Container Number(s)	
PONAR DREDGE SAMPLES	Codo . 523
FUNAN DREDGE SATTLES	Code F23
X-Section location	Container Number(s)
(% from R Bank Look Upstream) Dep	th (m)
,	

27

was the state of t

cause of the inaccessibility of the original site due to submerged navigation hazards. During the sixth sampling cycle the water level in Lake Seminole was at a record low level. As a result, station 12 in Fish Pond Drain was inaccessible and was therefore not sampled. Due to equipment malfunctions, also during cycle 6, station 18 in the Apalachicola River was sampled 2.4 km. upstream of the original site and adjacent to the east bank instead of at midstream, station 14 in Spring Creek was sampled at a point 2.0 km. downstream of the original site and station 19 in the Apalachicola was not sampled. Therefore, the results for cycle 6 at stations 14 and 18 may not be strictly comparable to the data obtained during previous sampling cycles.

Subsequent to sampling cycle 1 in April, all preservatives were added to the appropriate sample containers, with the exception of containers for spiked metal analyses, prior to being sent into the field. The actual spiking of spiked metal samples was also performed in the field beginning with cycle 2.

Grab Samples. Grab samples for the water quality parameters listed in Table 2 were taken at midstream one meter below the surface or at mid-depth where the station depth was less than ten feet. In addition, to define the effects of stratification, grab samples were taken at midsection one meter above the bottom at sampling sites 07, 09, 10, 11, 13 and 15 (Table 3) for complete analyses from the third through sixth sampling cycles.

The samples were collected with either a 2-liter Wildco-Beta-Plus horizontal style water sampler or a 4-liter Wildco Alpha vertical style water sampler. The samples which require filtration such as dissolved metals, dissolved ortho-phosphate and dissolved organic carbon (DOC) were filtered immediately on the boat according to the method in Table 4. The samples were then distributed to the sample containers with the proper preservative as outlined in Table 4. The sample bottle numbers were recorded on a carbonless duplicate field bottle record as shown in Figure 3. After all the bottles had been recorded and checked, they were stored as specified in Table 4, in coolers either filled with ice at 4°C or filled with dry ice for those samples which had to be frozen immediately.

Preservatives were added to most of the sample containers that require them prior to going to the field. However, the samples for the total and dissolved metals analyses, which require concentrated nitric acid (HNO_3) as a preservative were preserved in the field to reduce the amount of time the undiluted HNO_3 was in contact with the sample container. In addition, the samples used for dissolved organic carbon analyses had their preservative, sulfuric acid (H_2SO_4), added in the field to minimize the risk of organic contamination. Also,

following the first sampling cycle in April, it was noted that the results of the dissolved organic carbon analyses were slightly greater than the corresponding total organic carbon (TOC) values. This was attributed to the use of a cellulose acetate filter in the filtration step. To verify this assumption, organic carbon analyses were run on both filtered and unfiltered deionized water samples. The filtered samples averaged 1.5 mg C/I higher than the unfiltered samples. Since the average difference between DOC and TOC values for the results from the first cycle averaged 1.43 mg C/l, it was concluded that the filter paper used could account for the anomalous results. Thus, on DOC analyses for subsequent sampling cycles, 0.45 µ glass fiber filters were utilized. Nevertheless, despite efforts to prevent any contamination in either the sampling, handling or preservation phases, on a number of samples DOC values were greater than TOC values, although all values were less than 8 mg C/1 and in general the differences between DOC and TOC were 1 to 2 mg C/1. In all cases where DOC results were greater than corresponding TOC results, the DOC results were reported as "less than" the stated value.

Composite Samples. Composite samples for chlorophyll a, b, and c, phytoplankton, dry biomass, adenosine triphosphate (ATP), and algal growth potential were obtained by collecting a depth integrated raw water sample from either the euphotic zone, defined as the zone above the 1% light transmission level, in quiescent waters (lake stations) or from the entire water column in more turbulent waters (river stations). Samples were taken using a horizontal beta water sampler at the surface and at one meter intervals until the lower limit was reached as determined above. The samples were then composited and the required aliquots for the various parameters were drawn. When the depth to be composited was greater than seven meters, samples were taken at the surface and equal spaces over the required sampling depth.

Bacteriology Sampling and Analysis

Bacteria grab samples were taken (Table 3) in two 100 ml autoclaved sample bottles at a depth of 0.3 meters below the water's surface. Analyses for fecal coliforms and fecal streptococci were run in the field according to the method shown in Table 4. Precision control was tested by duplicating the first station of each day. Results were considered consistant if the 95 percent confidence intervals for both replicates overlapped.

Sediment Sampling and Analysis

Sediment samples were collected at each station listed in Table 3 and analyzed by the method referenced in Table 4. Each river station sediment sample was composited from approximately equal volumes of each of four separate grab samples, obtained with

FIGURE 3

LAKE SEMINOLE HATER QUALITY MANAGEMENT STUDY TYPICAL FIELD BOTTLE LIST RECORD FOR PHASE I (APRIL, 1978 THROUGH NOVEMBER, 1978)

WATER AND AIR RES		. Trip	Station	Sheet
6821 S.W. Are P.O. Box 11		Job: LS		of
Gainesville, Flo	orida 32602	Phase: I		
(904) 372-1	1500		Observer	
DEPTH INTEGRATED	SAMPLES	Temp p	H Cond	
Sample Container	No. Req'd	Preservation Technique	Container Number(s)	
<u>l qt. plastic ja</u>		5% formalin soln		
<u>l qt. plastic j</u>	ar l ie	phytoplankton) mp. (ATP) filterscrape ris+ 1 oz. bottle		
2 liter (H)	. _{1*} स	lter immed. onto 0.45 GF iter-freeze in dark (BT&	ck)	
1/2 11ter (P)	1 4.	C, dark (biomass)	<u> </u>	
1 gal. polycar-	1# 4:	lack) C, dark (AGP) (Black)		
2 liter (H)		C, dark, H2SO4 to pH		
1/4 liter (C)	10 71	(AGP) (Red) lter 0.45 washed filter		
	HC	1 to pH <3 freeze (Green)	
WATER QUALITY S	AMPLES	ĻE13		
Sample Depth (•	ے Surface	ب Mid-depth Boti	ني tom
Sample Container	•	Preservation	Container	•,
	Req' d	Technique	Number(s)	
1 liter (0)	•			
1 liter (0) 2 liter (H)	1* 4	Technique	Number(s)	
	1* 4 1*or2## 4	Technique	Number(s)	
2 liter (H)	1* 4 1*or2## 4 1* H	Technique *C, Dark (Black) *C, H2SOA to pH <2 (Red) *NO3 to pH <2 (Blue) *C, HCl to pH <3, filter	Number(s)	
2 liter (H) 1/2 liter (P)	1* 4 1*0r2## 4 1* H	Technique C, Dark (Black) C, H2SOA to pH <2 (Red) NO3 to pH <2 (Blue) C, HCl to pH <3, filter on site (wf), freeze (Gre	Number(s)	
2 liter (H) 1/2 liter (P) 1/4 liter (C)	1* 4 1*0r2# 4 1* H 1* 4 1* 4	Technique C, Dark (Black) C, H2SOA to pH <2 (Red) NO3 to pH <2 (Blue) C, HCl to pH <3, filter in site (wf), freeze (Gre C, H2SOA to pH <2, filt in site (Red) (GFF pretre NO2 to pH <2, filter on	en)	
2 liter (H) 1/2 liter (P) 1/4 liter (C) 1/4 liter (C)	1* 4 1*0r298 4 1* H 1* 4 1* 4 1* 4 1* 4 1* 4 1* 1* 1* 1* 1* 1* 1* 1* 1* 1* 1* 1* 1* 1	Technique C, Dark (Black) C, H2SOA to pH <2 (Red) NO3 to pH <2 (Blue) C, HCl to pH <3, filter in site (wf), freeze (Gre C, H2SOA to pH <2, filt in site (Red) (GFF pretre in site (Red) (GFF pretre in site (Blue) ml 2 N ZnAc/l	en)	
2 liter (H) 1/2 liter (P) 1/4 liter (C) 1/4 liter (C) 1/2 liter (P)	1* 4 1*or2** 4 1* H 1* 4 1* 4 1* 4 1* 4 1* 4 1* 4 1* 5	Technique C, Dark (Black) C, H2SOA to pH <2 (Red) NO3 to pH <2 (Blue) C, HCl to pH <3, filter in site (wf), freeze (Gre C, H2SOA to pH <2, filt in site (Red) (GFF pretre NO3 to pH <2, filter on ite** (Blue)	en)	
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an epoxy coated PonarTM dredge (standard size, 9"/side) from each of four equally spaced locations across the river channel. Each lake station sediment sample was composited from approximately equal volumes of each of four separate grab samples, obtained with an epoxy coated PonarTM dredge, from each of four locations, 90-degrees apart, along the circumference of an imaginary 20-foot diameter circle.

Corbicula Sampling

Corbicula specimens were taken where available utilizing an epoxy coated PonarTM dredge (standard size, 9"/side). A minimum of four grab sampling attempts were made at each of those stations specified in Table 3. Samples were taken at four equally spaced locations across the channel at river stations and at four locations, 90-degrees apart, along an imaginary 20-foot diameter circle at lake stations. Recovered specimens were washed prior to storage as specified in Table 4.

Other Field Sampling & Processing

Field sampling and processing methods for the algal growth potential test, phytoplankton, zooplankton, ATP, macroinvertebrates and macrophytes are discussed in subsequent sections of this report.

Storage and Shipment of Samples

All preserved water and sediment samples were stored as specified in Table 4 in coolers filled either with ice to 4°C or with dry ice for freezing. At the end of each sampling day, the samples were sent to the Water and Air Research, Inc. (WAR) lab in Gainesville via special courier, along with copies of the field notes from that day.

Laboratory Procedures

Chemical Parameters

Sample Integrity. The integrity of all samples was maintained from the moment they were received in the laboratory until the data were reported and approved. All samples were "logged in" immediately upon receipt. When feasible, preservation was also checked. Project name, parameters, sample number, and date received were recorded both in the log and on appropriate forms in the project notebook. A control sheet was used to monitor work in progress. Samples were stored as specified according to the analyses to be run, normally either frozen or at 4°C.

Samples sent to outside laboratories were also recorded as above. Date and shipping information were recorded in the project notebook. Documentation of shipment was preserved as part of the permanent laboratory record. A tabulation of bottle numbers accompanied any samples so sent. Spiked samples and duplicated samples were routinely included in the shipments as a quality control check. These control samples were not specifically identified to the subcontractor.

Analytical Methods. Chemical analyses of water, sediment, and mollusk tissue as well as bacteriological analyses of water strictly adhered to the procedures listed in Table 4. Any deviation from these specifications has been noted with the reported data.

Notes and Record Keeping. When the samples reached the laboratory, they were "logged in" immediately by date in the permanent laboratory record in a color-coded permanent project notebook. Each station was given a unique four-digit laboratory number. All notes, analysis sheets, printouts and any other lab information relative to the Lake Seminole project were also kept in the project notebook. Verification of the bottle numbers for each station by comparison with the field record was the responsibility of the lab supervisor. A tabulation of sample identification by laboratory code number, bottle number, and station number including the date sampled and the date received became a part of the permanent record. A table was made to monitor the status of the analytical effort on a given set of samples.

Analytical data sheets by analysis were prepared for groups and individual samples. These were marked with the sample identification number(s), project, date sampled, date received, and date analyzed. All analytical readings and calculations appear on these data sheets. These were turned in daily and filed in the appropriate project notebook. Any unusual appearance of the samples or results was recorded on the data sheets. These data became a part of the permanent record. All data sheets were initialed by the analyst and calculator. Recorder printouts such as autoanalyzer charts or fluorometer records were labeled according to parameter, project, date sampled and date analyzed and accompanied the data sheets which have been kept as a part of the permanent record in the project notebooks.

Sub-contracted Analyses. The list of analyses given in Table 5 were sub-contracted. Liason with each sub-contractor assured that the methods specified in Table 4 were followed in every case. Sample integrity records were maintained and spiked and duplicated samples were included in each shipment to provide quality control independent of the sub-contractor. Reports of results including quality control results were entered as a part of the permanent laboratory record. The laboratory supervisor was responsible for monitoring the analytical performance of each sub-contractor.

TABLE 5 ER QUALITY MANAGEMENT STU

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY SUBCONTRACTED WATER QUALITY ANALYSES FOR PHASE I (APRIL, 1978 THROUGH NOVEMBER, 1978)

Parameter	Subcontractor	Transmission Method
Composite Samples	,	
Chlorophyll <u>a</u> , <u>b</u> , & <u>c</u>	TSI	Bus
Water Samples		
TOC Dissolved Organic Carbon Calcium, Magnesium, Sodium and Potassium	CH2M-Hill CH2M-Hill TSI	Courier Courier
Sediment Samples		
Mechanical Analysis TOC Mercury Arsenic Chlorinated Hydrocarbons, Pesticides	TSI CH2M-Hill TSI TSI TSI	Bus Courier Bus Bus Bus
Mollusk Tissue		
All Parameters	TSI	Bus
Zooplankton		
Identification of all Taxa	TA	Courier

NOTES:

TSI - Technical Services, Inc., 103-7 Stockton Street, Jacksonville, Florida, 32201

CH2M-Hill - CH2M-Hill, Southeast, Environmental Laboratories, 7201 N.W. 11th Place, Gainesville, Florida, 32602

TA - Taxonomic Associates, P.O. Box 12379, University Station, Gainesville, Florida, 32604

Calculation and Reporting of Data. Calculation of the results of analyses was accomplished as soon as possible following completion of the "hands on" work to facilitate assessment of the control exercised by standards, replicates, and spiked samples. This assessment was the responsibility of the laboratory supervisor. All calculations were shown on the analysis sheets as part of the permanent laboratory record.

Checking calculations either by the analyst or the data calculator was standard practice. It was the responsibility of the laboratory supervisor to insure that all data reported had been calculated correctly.

"In-house" data tabulations and data were stored in the project notebooks as a part of the permanent record. Notes pertaining to field data, anomalous results, or deviations from standard methods were appended to finished reports. The accuracy of such reports was the responsibility of the laboratory supervisor.

For each cycle, the complete laboratory data base was tabulated on computer coding sheets and reviewed. These sheets were turned over to the project manager for entry into the data storage-retrieval system. A xerox copy of these sheets was kept in the project notebook as a part of the permanent laboratory record.

Quality Control Assurance

The following paragraphs describe the methods and procedures employed to assure the accuracy of the field measurements and laboratory chemical water analyses results. Short cuts were not permitted and any abnormalities were brought to the attention of the laboratory supervisor immediately. This included any analytical or safety abnormality as well as instrumental malfunction, or problems in replication or spike recovery.

Calibration Checks. These checks were done before using any instrument and the calibration recorded on the analytical data sheet. Daily logs of oven, refrigerator, and incubator temperatures were maintained with this equipment.

Gravimetric Analysis. Accuracy of analytical balances was monitored with a standard weight set (coins) and results were recorded on log sheets. Calibration checks and routine maintenance is done biannually by an established contractor.

<u>Titrimetric Analyses</u>. The method was checked against a standard solution daily. The results were recorded on the data sheet and as part of the accuracy control data.

<u>Colorimetric Analyses</u>. A standard curve of at least 3 points was run daily. More points were run if required. The results of standards were recorded on the data sheet and also as a part of the accuracy record.

<u>Instrumental Analyses</u>. The Atomic Absorption Spectrophotometer and the Technicon Autoanalyzer II had daily calibration curves constructed. Instrument settings were recorded on the data sheet and as a part of the instrument record.

Fluroide electrodes, pH meters, conductivity meters, and turbidimeters were calibrated as necessary and the calibration was checked after every 10 samples. The notation was entered on the data sheet that the calibration was made.

The laboratory deionized water supply's resistance was continuously monitored and maintained at 500,000 OHMS. Deionized water blanks were always included in analyses to control possible contamination from this source.

Precision and Accuracy Control. Shewhart type (USEPA, 1979) precision and accuracy control charts were maintained for all routine laboratory analyses. These charts are updated yearly using the entire data base generated by the laboratory for the preceding year's work. These charts were maintained as a permanent laboratory record.

In this study precision was also monitored by analysis of duplicate samples. A minimum of 10 percent of the total number of samples obtained during a given sampling cycle were split in the field by filling two separate containers from the same grab sample. In general, this was achieved by sampling one station in duplicate on each sampling day. One of this pair of samples was analyzed as the first sample of an analysis run; the other was run as the last analysis. An additional sample was duplicated within a given analytical set. The difference between the field duplicates was compared with the control limits on the quality control chart. If the difference exceeded the warning limits the difference between the inhouse duplicate was compared. If the in-house and field differences exceeded the warning limits the whole set of analyses was repeated. If the field duplicates exceeded the warning but the in-house duplicate was in control, each of the field duplicates was run again to verify that the difference was due to sampling rather than analytical procedure.

The results of the field duplicated samples was included in each progress report and as Appendix E in this report. The sample duplicated in-house was recorded on the precision chart.

Daily monitoring of the accuracy of the analytical work was accomplished by comparing the results of recovery of known spikes from replicated spiked samples. One sample in every 10 was spiked and at least one spiked duplicated sample was included on each sample set. The difference between the recovered value for the spike versus the normal spike value was compared with the accuracy chart warning limit. If this value exceeded the warning limits the analysis for the set of samples was repeated. The results of the spike recoveries were recorded on the accuracy chart.

Spiked sample analyses were run for:
Fluoride
All nitrogen forms
All phosphorus forms
Sulfate

Chlorides

All metals.

In addition, two samples each sampling cycle were spiked in the field with iron, manganese, and zinc. Samples for dissolved metals for these same stations were spiked with iron and manganese. The spiked samples for total metals were split with the South Atlantic Division Laboratory (SAD). Results of these metal spike recoveries were included in each progress report.

In addition to the in-house accuracy control, quality control assurance was monitored by splitting two samples per cycle with the SAD laboratory.

Reference Samples. Environmental Protection Agency reference samples for chlorophyll a, b, and c, nutrients, BOD, major ions, and trace metals were analyzed during cycle 3 and the results compared to established values.

Bacteriological Quality Control. Control of the quality of bacteriological media was maintained by careful attention to holding times and conditions for prepared m-fecal coliform broth (96 hours at 4°C) and KF-streptococcus agar (one month at 4°C). Sterility of sample bottles and equipment was assured by monitoring autoclaving time and temperature. A heat sensitive test strip was included in each set of autoclaved material.

In the field, attention was paid to meeting holding times for bacteriological samples. Incubator temperatures were carefully monitored. One sample each day was analyzed in duplicate.

Algal Growth Potential Test Methodology

The algal assay procedure, bottle test, was performed on water

collected from 11 selected stations (06, 07, 09, 10, 11, 12, 13, 14, 15, 16 and 18) during sampling cycles 1 (4/17-21/1978), 3 (7/17-20/ 1978) and 5 (9/25-27/1978) in accordance with procedures specified in Miller et al. 1978. Algal growth response was indirectly measured as ash-free dry weight after 12 and 14 days incubation using a Coulter Model Zf particle counter equipped with a near cell volume computer. The counter and cell volume computer were calibrated in accordance with the manufacturer's procedures using a 4.59 μ diameter organic particle obtained from Coulter Electronics, Inc. All counts were run using a lower threshold of 10 µm³ to exclude debris. Calibration of the mean cell volume computer was performed each time the instrument was used. Procedures for calibrating Coulter type electronic particle counters are also included in Miller et al. 1978. A gravimetric factor to convert particle volume to ash-free dry weight was determined to be 2.8 x $10^{-7} \mu g \mu m^{-3}$ for Selenastrum capricornutum Printz under the culture conditions used. Five counted, sized suspensions were washed three times by centrifugation, transferred to tared crucible cups and dried at 70°C overnight. After weighing the dried algae, the ash content was determined after heating the material at 500°C for 1 hour. A subculture of this organism supplied from the Pacific Northwest Environmental Research Laboratory (EPA) on 4/4/78, was maintained for use during each of the algal assays.

Depth integrated samples from the euphotic zone in quiescent waters (lake stations) or from the entire water column in more turbulent waters (river stations) were collected as specified earlier. All samples were processed within three days by an autoclaving-filtration procedure to assess the amount of algal biomass which could be grown from all nutrients in the water, including those contained in filterable organisms and other particulate matter (Miller et al. 1978). Background chemical analyses for total Kjeldahl nitrogen, ammonia nitrogen, nitrite plus nitrate nitrogen, as well as dissolved ortho-phosphate and total phosphorus were performed on the samples before and after autoclaving.

The experimental design shown in Table 6 was followed to determine the nutrient availability, the primary growth limiting nutrient(s) (nitrogen, phosphorus, or trace metals) and to determine the presence of toxic substances. This procedure, outlined in Miller et al. 1978, compares the relative growth of the test alga in water spiked according to Table 6 to the growth response of the alga in unspiked lake water. Each combination as well as the lake water control was set up in triplicate for each station.

Phytoplankton Methodology

Phytoplankton was collected from a depth integrated raw water sample from the euphotic zone in quiescent waters (lake stations) or from the entire water column in more turbulent waters (river

TABLE 6

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
BASIC EXPERIMENTAL DESIGN USED TO DEFINE
NUTRIENT LIMITATIONS AND ALGAL GROWTH
POTENTIAL FOR PHASE I (APRIL, 1978
THROUGH NOVEMBER, 1978)

Lake water (not spiked)

Lake water + 0.05 mg P 1^{-1} as K_2HPO_4

Lake water + 1.00 mg N 1^{-1} as NaNO₃

Lake water + 0.05 mg P l^{-1} + 1.00 mg N l^{-1}

Lake water + 1.00 mg Na $_2$ EDTA 1^{-1} as Disodium (Ethylenedinitrilo) tetraacetate

Lake water + 0.05 mg P 1^{-1} + 1.00 mg Na $_2$ EDTA 1^{-1}

Lake water + 1.00 mg N 1^{-1} + 1.00 mg Na $_2$ EDTA 1^{-1}

Lake water + 0.05 mg P 1^{-1} + 1.00 mg N^{-1} + 1.00 mg Na_2 EDTA 1^{-1}

stations). The water sample was depth integrated with a Van DornTM sampler just below the surface and at one meter depth intervals until the lower limit was reached. If the euphotic zone in quiescent waters or impoundment depth in more turbulent waters was over 7 meters deep, eight samples beginning at the subsurface were equally spaced over the required sampling depth. These were composited and a 1 liter aliquot for the station withdrawn, placed into a pre-numbered 1 liter plastic jar, and preserved with 5 percent buffered formalin (neutralized with sodium tetraborate to a pH of 7.0 to 7.3). The collection number, site, date, and time of collection were recorded for each station in a field notebook along with weather (cloud cover, wind direction, and intensity) and water conditions (surface waves, color, turbidity, and depth) and any unusual observations during sampling.

In the laboratory, the field data were transferred to a permanent log book and the samples checked against this record. Phytoplankton analysis was made by the Utermöhl (1931, 1958) method. Each sample was resuspended with a magnetic stirrer and a known aliquot (usually 20 or 40 mls) was transferred into a standardized plankton sedimentation chamber with a known settling area of 397.6 mm². After 24 hours of settling, the chamber was placed on a Zeiss Invertoscope "D" microscope (magnification to 1000X), and a minimum of 300 organisms (sampling cycles 1, 2 and 3) or 150 organisms (sampling cycles 4, 5 and 6) were enumerated for each sample. Cell counts were made by randomly selecting microscope fields along at least two perpendicular transects of the chamber and counting all cells within each field. For colonies and filaments consisting of a large number of cells, 1/4 or 1/2 of the colony or filament was counted and this resultant number multiplied to obtain the number of cells for the entire colony or filament. Empty algal cells or diatom frustules were not included in the counts. Identified cells were recorded on standardized bench sheets and later converted to number of cells per milliliter for each taxon in the water sample using the following conversion equation:

Cells/ml =
$$\frac{(CA)}{(FMV)}$$

where,

C = number of cells counted;

A = area of bottom of the counting chamber (397.6 mm^2) ;

F = number of fields counted;

M = area of one microscope field (0.038 mm²); and

V = volume of aliquot settled.

All organisms were separated and identified to species where possible. The following major standard taxonomic references were used for identification: Heurck, 1896; Hustedt, 1927-1930, 1930, 1931-1959, 1949, 1961-1966; Hanna, 1933; Huber-Pestalozzi and Hustedt, 1942; Smith, 1950; Prescott, 1951; Drouet and Dailey, 1956; Bourrelly, 1966-1970; Patrick and Reimer, 1966, 1975; VanLandingham, 1967-1979;

Drout, 1968, 1973; Whitford and Schumacher, 1973. Other minor references too numerous to list were also used.

Since the classification of diatoms is based primarily on the shape and markings of the cell wall, critical identifications can only be done if the diatoms are cleaned (all organic matter removed); thereby leaving only the silica cell walls. Diatom identification was facilitated by cleaning 30 ml of the initial samples using the hydrogen peroxide method (Werff, 1953; Patrick and Reimer, 1966). This involved placing the aliquot in a 2,000 ml beaker and adding approximately 50 ml of 30 percent hydrogen peroxide. A small amount $(0.1-0.2~\rm g)$ of potassium dichromate was added (resulting in a purple solution) and in a few moments an exothermic reaction began. This resulted in a violent heating and boiling of the mixture, which oxidized all of the organic matter within the solution, including that contained within the diatoms.

Upon completion of this aqueous combustion reaction, the solution turned yellow and the mixture was then transferred to a 300 ml tall beaker, filled with distilled water, and allowed to settle 6 - 24 hours. The diatomaceous material settled to the bottom and formed a delicate flocculent layer. The sample was then decanted at least 3 times to remove the chemicals (using distilled water to refill the beaker after each decanting). The cleaned diatoms were then poured into a storage vial and enough alcohol added to make at least a 30 percent solution to inhibit growth of fungi.

Permanent slides were made of the cleaned diatoms with Hyrax mounting medium. Clean #1 cover slips (22 mm sq) were flooded with water containing different concentrations of the suspended diatoms and allowed to air dry at room temperature or on a low temperature hot plate. When dry, the coverslip was heated to 500° C for 5 - 10 minutes and then inverted into a drop of Hyrax on a slide. The slide was then heated for a few minutes at 300 - 400°C until the Hyrax stopped bubbling under the coverslip. This allowed time for the penetration of the diatom frustules by the Hyrax and the evaporation of the solvent. The slide was then allowed to cool while pressing the coverslip down so that it would lie flat on the slide. The Hyrax hardened rapidly and the excess along the edges was scraped off with a razor blade. The slide was then wiped clean with acetone. Initial diatom identifications were made from these slides. If identification difficulties arose in other samples during the study period, portions of these samples were also cleaned and permanent slides made to facilitate diatom identifications.

Voucher specimens of difficult taxa were sent to Dr. C. W. Reimer, Academy of Natural Science of Philadelphia (diatoms) and Dr. J. B. Lackey, Professor Emeritus, University of Florida (green and blue-green algae) for taxonomic verification.

Zooplankton Methodology

Semi-quantitative zooplankton samples were collected from quiescent waters (lake stations) with a single vertical tow through the water column by using a Wisconsin style 0.5 meter diameter, 80 micron mesh weighted plankton net with an attached flowmeter. The tow was performed at a uniform speed of approximately 0.5 meter per second to minimize avoidance reactions and sampling bias. Zooplankton were collected from turbulent waters by taking an oblique tow from near the bottom to the surface while letting the boat drift with the river flow to maintain a tow angle as nearly vertical as possible. The tow angle, time, length of rope let out, and flowmeter readings were recorded. Zooplankton samples were preserved in a final concentration of 5 percent buffered formalin with Rose Bengal added in pre-numbered plastic bottles. The collection number, site, date, and time of collection were recorded for each station in a field notebook, along with weather (cloud cover, wind direction, and intensity) and water conditions (wave height, color, turbidity, and depth) and any unusual observations during sampling.

In the laboratory, the field data were transferred to a permanent log book and the samples were checked against this record. Zooplankton were identified on a compound microscope with a magnification to 400X. They were then enumerated by placing a thoroughly mixed aliquot in a Wards zooplankton counting wheel and examining it at a magnification of 20 - 60X under a stereoscopic microscope. The aliquot size (taken with a Henson-Stempel pipet) varied from 1 - 5 ml depending on the densities of organisms and detritus. All zooplankton within the chamber were identified to genus wherever practicable and enumerated except for the two dominant genera which were identified to species.

The principal taxonomic references utilized were Edmondson, 1959; Brooks, 1957; Deevey & Deevey, 1971; Marsh, 1929; and Voight, 1956.

The number of each taxon in the sample was converted and reported as number per liter using the following conversion equations:

Number of organisms/1 = $\frac{AC}{BV}$

where,

C = organism count (raw data)

A = volume of the concentrated sample;

V = volume of water passed through the plankton net; and

B = volume of the examined aliquot.

The total volume (V) was calculated as a function of the length of the water column which the net passed through:

$$V = \pi r^2 1 = (3.14)(0.25 \text{ m})^2 1 = 1 (0.196 \text{ m}^2)$$

with 1 being the length of the water column based on the flowmeter value or the length of rope let out if the flowmeter malfunctioned.

ATP Test Methodology

Sampling and Sample Preparation

At stations 01 through 19, 200 ml or more of water from the depth integrated water sample were filtered through a 0.45 µm membrane filter (Millipore). Upon completion of the filtration, the vacuum was broken just as the last of the water passed through the filter, and the filter was quickly transferred to a 150-ml Pyrex beaker containing 10 ml of boiling 0.02 M Tris buffer. The filter was placed upside down into the Tris and heated for 5 to 10 minutes at 100°C in a water bath. The beaker was then removed from the water bath, the filter scraped with a plastic policeman to loosen the filtrate from the filter into the Tris, and replaced in the boiling water for 5 min. The beaker was then removed from the water bath and cooled rapidly. The filter was held against the side of the beaker and any remaining filtrate scraped off with a plastic policeman. The filter was then discarded. The sample was then transferred to a 1-oz Nalgene (plastic) screw cap bottle, labeled with the bottle # (T) and volume (mls) filtered, and frozen at -20°C (dry ice in the field).

When the sample was ready to be analyzed, the contents of the bottle were thawed, the sample mixed and then transferred to a centrifuge tube. The volume of sample was recorded and approximately half of the sample was transferred back to the original container (in case of errors such that a redetermination was necessary) and the remainder centrifuged. The tubes were removed from the centrifuge and the supernatant poured into a clean, labeled scintillation vial for transport to the University of Florida for determinations.

Standardization Curve

An ATP standard stock solution was prepared by weighing 119.3 mg of crystalline adenosine 5' - triphosphate-disodium salt using ATP-free glassware. The ATP was dissolved in 100 ml of fresh 0.02 M Tris buffer containing 29.2 mg of EDTA and 120 mg of MgSO $_4$ (resulting concentration of 1 mg of ATP/ml). This was dispensed in 5.0 ml aliquots in 1-oz Nalgene bottles and stored at -20°C until required.

One ATP stock bottle was thawed and 1.0 ml of the ATP stock solution containing 1 mg of ATP/ml was pipetted into a 1-liter

volumetric flask and brought up to volume with 0.02 M Tris buffer (or pipet 1 ml of stock solution into 100 ml of Tris, mix, and pipet 1 ml of this dilution into 9 ml of Tris to result in the same dilution). This solution contained 1.00 μ g ATP/ml. The following serial dilutions were then made:

1.00 X 10^{-1} μg ATP/ml 1.00 X 10^{-2} μg ATP/ml 1.00 X 10^{-3} μg ATP/ml 1.00 X 10^{-4} μg ATP ml.

The calibration curve was determined by making a minimum of 3 replicate determinations of each of the serial dilutions.

Reagents

Tris Buffer: (0.02 M) (Tris (Hydroxymethyl) Aminomethane) - Dissolve 2.5 g of the buffer crystals in 1 liter of deionized water. Bring to pH 7.75 using HCl (pH meter). Sterilize by autoclaving for 30 min. at 121° C, 15 psi (103 kPa) pressure, and store refrigerated in stoppered flasks.

FLE-50: Firefly Lantern Extract (Luciferase/Luciferin Reaction Mixture) - Reconstitute by adding 35 ml (or 37.5 ml) of low response water to one vial of extract. The luciferase/luciferin reaction mixture must be mixed gently without shaking. Allow to stand at room temperature (23 - 26°C) for one hour. Filter through Whatman #1 filter paper and store in an ice bath for 3 hours before use. Use enzyme preparation within 8 hours of preparation.

Hydrochloric Acid (C.2 N): Add 17.0 ml of HCl (sp. gr. 1.19) to a 1-liter volumetric and bring to volume with water.

ATP-Free Glassware: Rinse chemically clean glassware three times with 0.2 N HCl, rinse three times with Tris buffer, and rinse three times with low-response water.

Low-response Water: Sterile, deionized, ATP-free water may be prepared by treatment in a suitable system involving carbon treatment with deionization, filtration, glass distillation, or sterilization by autoclaving and stored under refrigeration in stoppered flasks.

Determination

One ml of reconstituted firefly lantern extract (35.0 ml low response water/vial of extract) was pipetted into a scintillation vial and the background light emission read. Using a Packard Tri-Carb Model 2002 liquid scintillation spectrometer (gain set at 53, window opening of 50 to 1,000, and set in a repeat count mode, with each

sequence) the normal background emission was 10 to 20 counts or less in the 6-sec counting interval.

Exactly 0.5 ml of the ATP standard or sample extract was added using the micropipette syringe (with new tip each time) and the vial swirled to thoroughly mix the contents. Eleven seconds after the sample addition to the firefly extract, the vial was inserted into the counting chamber and the counting sequence begun. Two samples from the beginning of the run were repeated at the end of each run to determine repeatability and check for decay of the firefly lantern extract during the run. For each cycle in Phase I, samples were analyzed for each of the 19 stations except during cycle 6 in November when stations 12 & 19 could not be sampled due to low water levels and boat problems.

Macroinvertebrate Methodology

Benthic Natural Substrates

Benthic macroinvertebrate grab samples were collected at all nineteen locations. Sampling frequency was as outlined in Table 2. At the riverine stations, one sample was collected in the thalweg and one near each river bank. At lake stations 08, 09, 10, 11 and 13 samples were collected from three locations, taken 120 degrees apart, along an imaginary 20-foot diameter circle.

Benthic macroinvertebrates were collected with a standard size (9"/side) PonarTM dredge. The dredge was lowered from the side of the boat. using a boom and power winch, slowly enough that a minimal "shock wave" was created so as not to disturb the benthos. Once the dredge touched bottom, the closing mechanism was immediately tripped and the dredge quickly raised to the surface. The dredge was then placed in a sieve bucket (US Standard No. 30 mesh) and the sample washed out with a squirt bottle filled with lake (or river) water to reduce the sample volume. The washed sample was then placed in a pre-numbered bottle (wide mouth, plastic, 1-pint or 1-quart).

Upon completion of all replicate sampling at a given station, buffered formalin preservative was added to a concentration of 5-10 percent, depending upon the quantity of detritus present. Rose Bengal was added as an organism stain to facilitate sorting, being added prior to preservation in order that the organisms' respiratory processes increased the amount of staining. The rose bengal was applied as a dry crystal, in a quantity sufficient to stain the sample a dark red, this quantity being variable according to sample size and the amount of detritus in the sample.

Upon return to the lab, the samples were shelved in an orderly manner and their numbers recorded and checked against the numbers in the field notes. Samples which were accidentally misrecorded, or which were otherwise in error, were discarded.

In the laboratory, each sample was carefully washed in a US Standard No. 30 mesh sieve (or smaller, if organism loss was significant) that was partially immersed in a large white plastic pan. This removed formalin, excess Rose Bengal stain, and the remaining silt and clay. The sample was then placed, in manageable aliquots, in a white enamel pan for removal of organisms (sorting). Organisms, were placed in 5 milliliter vials, in 95 percent ethanol. Each vial was labeled with a code representing the project, collection date, type of substrate sampled, collection location, and replicate bottle number. For example:

LSN-3-18E

Project Code and Substrate -- Collection Date -- Station No. (Lake Seminole, (third cycle: (18 East Bank) Natural Substrate) July 1978)

A vial with ethanol was weighed, the sampled organisms were then placed in the vial, and the vial was re-weighed. The difference between the two values was considered "wet weight" biomass. These numbers are high, however, due to the introduction of extra ethanol when inserting the organisms. Limited experiments suggesting errors as high as 25-33 percent were found at stations with relatively low biomass.

Organisms were identified with an American Optical Stereoscopic Microscope (7X to 80X) and a Swift Trinocular Microscope (40X to 400X). Taxonomic references used were Beck (1962), Beck and Beck (1969a and b; 1970), Curry (1958), Hilsenhoff (1975), Mason (1973), Parrish (1968), Roback (1963, 1969), Brinkhurst and Jamieson (1971), Brown (1972), Edmunds, et al. (1976), Holsinger (1972), Thompson (1968), Usinger (1956), Wiggins (1977), and Saether (1977). Taxonomically difficult and ecologically important species were identified or verified by experts in their respective fields: William Beck, Florida A&M University, for Chironomidae and Michael Loden, Louisiana State University for Oligochaeta. Other authorities were consulted for the less frequent taxa, and for specific groups within the Insecta (such as Dr. Minton J. Westfall, University of Florida, for Odonata).

The Chironomidae and Oligochaeta were grouped under low magnification and representative specimens were selected for microslide mounts, from which the identifications were made. Only one organism was mounted per microslide. Chironomids were mounted in polyvinylactophenol, which contains a clearing agent and makes excellent semipermanent slides. Oligochaetes were permanently mounted in CoverbondTM, which does not contain a clearing agent. Organisms can be removed and remounted, if necessary, with either of these mounting media.

The Shannon-Weaver Species Diversity Index, \overline{H} (Odum, 1971) was calculated using the following expression:

$$\overline{H} = \sum_{i=1}^{t} \left[\frac{n_i}{N} \log_2 \left(\frac{n_i}{N} \right) \right]$$

where n_i = total number of organisms present as taxon \underline{i}

 $N = \sum_{i=1}^{\infty} n_i = \text{total number of organisms present in the sample } i=1$

t = number of taxa present in the sample

 Π ranges from a minimum of 0.0, occurring when all organisms belong to the same taxon (no diversity), to a maximum of \log_2 N, occurring where each organism present belongs to a unique taxon (maximum diversity).

Evenness (e)

If the organisms of a sample are uniformly distributed among the taxa present, the Shannon-Weaver Index assumes the value, in t, a condition of perfect evenness in the apportionment of individuals among species. The Index of Evenness, e (Odum, 1971) was used to express the actual Shannon-Weaver Index as a fraction of this "ideal" value:

$$e = \frac{\overline{H}_e}{\ln(t)}$$
 (defined for t >1)

where \overline{H}_{p} = actual Shannon-Weaver Species Diversity Index

t = number of taxa present in the sample

Evenness ranges from 0.0 (minimum evenness) to 1.0 (perfect evenness), and the calculated values are independent of the logarithmic base.

All samples were retained for reference until being sent to the Mobile District COE office at the end of the study. A few chironomid larvae and oligochaetes were donated to Mr. William Beck, Jr., and Dr. Michael Loden, for their taxonomic value.

Hester-Dendy Artificial Substrates

The Hester-Dendy sampler used was that which is recommended for EPA biologists. It consists of fourteen 7.5-cm diameter plates, and twenty-four 2.5-cm diameter spacers, constructed of 0.625-cm thick tempered fiberboard, strung together on a 25-cm eyebolt so that there are 8 single spaces, one double space, two triple spaces and two quadruple spaces between the plates. This sampler has an effective surface area of 0.12 square meter.

Artificial substrates were emplaced at all stations except 08, 10, and 17. The samplers were attached to marker buoys and incubated for a period of six weeks. The sampling frequency is outlined in Table 2. Each sampler was collected by raising it from the water and quickly placing it into a cloth bag, which was then preserved in a 5-gallon RoperTM bucket containing a 10 percent buffered formalin solution. These samplers were not re-used, as it was very difficult to remove the formalin from the fiberboard.

In the laboratory, the cloth bag was everted into a US Standard No. 30 mesh sieve placed in a white enamel pan. The sampler was then removed and disassembled. The bag, sampler, and organisms were rinsed to remove the formalin and accumulated sediments. All organisms were removed and placed in vials containing 95 percent ethanol. Each vial was labeled and the organisms identified as outlined in the previous section.

Shannon-Weaver and Evenness values for the Hester-Dendy macro-invertebrates were calculated as described above.

Macrophytes

Aquatic macrophytes in Lake Seminole were surveyed in June and September, 1978. The macrophyte surveys were conducted to map their extent, to obtain pressed specimens, to collect reference photographs, to develop species lists, and to determine their nuisance potential.

The reservoir was surveyed from a flat-bottomed boat for 3-4 days during each of the two field trips. Included were personnel from WAR and USACOE personnel at Lake Seminole. The vegetation map was

constructed from notes collected during field inspections. Specimens of selected "uncommon to rare" species were collected when in flower. These were pressed and duplicate herbarium sheets were prepared for delivery to the USACOE personnel at Mobile, AL. Reference photographs were taken in 35 mm color slide form and are being held at WAR. Species identifications and lists were made in situ by survey personnel. The primary taxonomic references were Radford, et al. (1964), Long and Lakela (1971), and Fassett (1940). The nuisance potential of aquatic macrophytes in the lake was determined by interviews with USACOE biologists, local residents, USACOE publications (USACOE; 1961, 1971, 1972, 1973, 1974, 1975, 1977a, 1977b, 1978), and by inspection.

The vegetation map was very difficult to construct for several reasons. First, appropriate aerial photography, which is the single most important tool for mapping vegetation, was unavailable. Second, the USGS Quadrangle maps, which were relied upon in lieu of aerial photos, are incorrect in many places, especially concerning the reservoir islands. Third, vegetative diversity is very high. And fourth, mapping the dense periphyton mats occurring in the shallow waters of the Flint River portion of the reservoir is dependent on the use of bottom topography maps, which were unavailable to us.

Several compromises were made as a result of these problems. Shoreline vegetation, usually a mix of several to many species, was not shown in many places since it occurs in too narrow a band to show in the chosen map scale. This problem was most pronounced with the fringe of giant cutgrass around many islands and in the Chattahoochee River. Also, small patches of invading nuisance species, such as Egeria at the Georgia Ranger Station, are too small to show up in the chosen map scale. The periphyton mats are not shown at all.

RESULTS AND DISCUSSION

The following discussion is intended to summarize the data shown in Appendices A through M and highlight the trends and water quality observed during the six sampling cycles of Phase I of the Lake Seminole Water Quality Management Study.

Stream Flows

Data was obtained from the United States Geological Survey (USGS) in Doraville, Georgia, for the Flint River at Newton, Georgia (USGS Station 02353000), the Chattahoochee River through Andrews Lock and Dam (USGS Station 02343801) and Spring Creek near Iron City, Georgia (USGS Station 02357000). The locations of the flow gaging stations are shown on the Map Coverage Index of Figure 1. Data for the flow through Jim Woodruff Lock and Dam were obtained from the U.S. Army Corps of Engineers, Mobile District. The data for Spring Creek and the Flint River represent stream flows outside the actual study area.

A summary of the available stream flow data is given in Appendix A. Monthly average stream flows for which there are data are shown for the Chattahoochee and Flint Rivers, Spring Creek and the flow through Jim Woodruff Lock and Dam. Daily averages for one week prior to and the week of each sampling cycle are also shown. No daily averages were available for Spring Creek.

In general, the data shows wide variations in flow from day to day on the Chattahoochee River due to fluctuations in discharge from Andrews Lock and Dam. The Flint River and Spring Creek are not subject to these wide daily variations. Based on monthly average flows, the Chattahoochee accounted for approximately 60 to 80% of the total flow reaching Lake Seminole.

The period of highest flow occurred during sampling cycle 2 in May. Monthly average flows for May, 1978 were 521 m 3 /sec at Andrews Lock and Dam on the Chattahoochee, 275 m 3 /sec on the Flint at Newton, Georgia, and 1005 m 3 /sec through Jim Woodruff. The period of least flow was November with average flows of 129 m 3 /sec on the Chattahoochee, 60 m 3 /sec on the Flint and 221 m 3 /sec through Jim Woodruff. It should be noted that the pool elevation in Lake Seminole was at the lowest level in its history during the sixth sampling cycle in November, 1978.

Water Quality Data

Complete in <u>situ</u> and laboratory water quality results are given in Appendices C and D respectively. In general, water temperatures

were highest during cycle 3 in July. The mean temperature for this cycle for Chattahoochee River stations (01,02,03,04,05,06) was 28.5° C; for Flint River stations (16 and 17), 27°C; for lake stations (08,09, 10,11,13,15), 30.2°C; and for stations on the Apalachicola River, 29°C. Station 12, on a wide, shallow, relatively stagnant arm of the aservoir had a water temperature of 30° C during this cycle and station 14 on Spring Creek was 28.5° C. Minimum temperatures were encountered during sampling cycle 6 in November with temperatures at all sites of 18° C - 19° C. At no time during this study was a well defined thermocline evident at any of the lake stations sampled due probably to the shallowness of the reservoir and wind mixing of it. However, during cycle 2 in June and cycle 3 in July, a slight (i.e. $1-2^{\circ}$ C) surface warming was apparent at most lake stations. No significant lateral thermal variation was observed during either the first or fourth sampling cycles in April and August, respectively.

The most severe dissolved oxygen depletion occurred during cycle 3 due probably to reduced mixing and increased temperature. Dissolved oxygen during this cycle ranged from 9.9 mg/l one meter below the surface at station 15 down to 3.3 mg/l at a depth of 6.0 meters at station 11 just upstream of the dam (see Figure 1). D.O. levels below the dam on the Apalachicola River were in the 6.0-9.0 mg/l range at all times. No anaerobic conditions were encountered at any sampling sites during any of the sampling cycles. Vertical profiles and D.O. isopleths for cycles 2, 3 and 4 showing the variation in D.O. with depth and cross-section respectively, at a given site are shown in Appendix In general, the reservoir stations exhibited a decrease in D.O. with depth during the late summer months; however a marked thermocline did not develop and mixing from top to bottom was not inhibited. No significant lateral or vertical variation in dissolved oxygen was evident at any of the river stations during either the first or fourth sampling cycles in April and August, respectively, with the exception of station 14 in Spring Creek during August. The variation found at this station was probably due to the lack of current and mixing.

At station 1 (just below the George W. Andrews Lock & Dam) the D.O. ranged from above 9.0 in both April and November to a low of 7.0 at midstream in August. At station 18 (just below the Jim Woodruff Lock & Dam) the D.O. ranged from above 8.4 in April and November to a low of 6.3 in July at midstream.

pH values for all stations during all the sampling cycles were in the 6.0 - 9.0 unit range. No significant vertical variation in pH was observed at any of the lake stations sampled during the study. During the fourth sampling cycle in August a slight lateral variation in pH of 0.3 and 0.4 and a more pronounced vertical variation of 1.6 and 1.8 was apparent at stations 11 and 15, respectively, again probably due to the lack of current and mixing at these reservoir stations. No significant lateral or vertical variation in pH was evident at any of the river stations during either cycle 1 in April or 4 in August.

All oxidation-reduction potentials (0.R.P.) in this report have been referenced to the Pt/H2,H system. In general, 0.R.P.'s ranged from about +300 mV to about +600 mV for all stations during all sampling cycles. An exception to this trend was station B0, just below the Great Southern Land and Paper Company outfall on the Chattahoochee River, Mile 38.2. Here the 0.R.P. dropped sharply during cycles 2,3,5, and 6 to values ranging from +60 to +290 mV. According to the values in Appendix D, the slight variation in other parameters measured at this station (water temperature, conductivity, dissolved oxygen, and pH) do not correspond or account for the changes in 0.R.P.

Turbidity over all the cycles was highest for the Chattahoochee stations with a mean value of 23.6 FTU. The mean value for the Flint River stations was 7.7 FTU, the reservoir stations, 14.8 FTU and the Apalachicola stations, 14.7 FTU. Turbidity at station 12 on Fish Pond Drain averaged 2.6 FTU and station 14 on Spring Creek averaged 9.1 FTU. Suspended solids concentrations, secci disc, and % light transmission exhibited the same general areal trends as turbidity.

Specific conductance, total dissolved solids (T.D.S.) and alkalinity all followed the same general areal patterns during the entire study period. All three parameters were lowest at the Chattahoochee River sampling sites (01-06), and generally higher on the Flint River arm of the reservoir. Station 14 on Spring Creek yielded the highest values for all three parameters for all the sampling cycles. The values for all stations and all cycles for specific conductance, T.D.S. and alkalinity were in ranges that would be expected in this type of system.

Total iron concentrations were fairly high at times compared to EPA criterion (U.S. EPA, 1976) and exhibited several areal and chronological trends. In all cases, the total iron was composed primarily of insoluble forms. Concentrations in the Chattahoochee were highest during cycle 1 and 2 in the spring, with values ranging from 1.5 mg/l to 5.0 mg/l. There was a general downward trend after the second cycle until cycle 5 in September where the lows ranged from 0.2 mg/l to 0.5 mg/l. Cycle 6 in November showed the beginning of another upward trend. Concentrations in the Flint River were highest during the first and fourth sampling cycles with values ranging from 1.3 mg/l to 2.0 mg/l, and lowest during the fifth cycle in September with values around 0.2 mg/l. Concentrations in the reservoir followed the same general trends as those in the Chattahoochee. Spring Creek and Fish Pond Drain had much lower concentrations. In the Apalachicola River the concentrations were again highest during cycle 1 and ranged from 1.7 mg/l to 2.3 mg/l. The concentrations then declined to low values of 0.2 mg/l to 0.3 mg/l during cycle 5 in September. It should be noted that concentrations of total iron at most of the stations during the spring and early summer months exceeded the suggested EPA criterion of 1.0 mg/1 for fresh water aquatic life (U.S. EPA, 1976).

Concentrations of manganese and zinc were low at all times with concentrations never exceeding 0.2 mg/l. There were no obvious areal patterns. Neither Georgia nor Alabama have numerical criteria for zinc or manganese.

Total inorganic nitrogen (TIN), composed primarily of nitrate-nitrite, was highest on the Flint River stations during the entire phase, with values of TIN ranging from 0.30 mg/l to 0.75 mg/l. The Chattahoochee River and the reservoir stations were highest in the spring, decreased over the summer, and rose again in the fall. Values in the Chattahoochee ranged from lows of 0.08 mg/l in the fall to a high of 0.53 mg/l in the spring. In the Apalachicola River, values followed the same trend with high concentrations ranging from 0.39 mg/l to 0.45 mg/l during cycle 1 to low concentrations of 0.08 mg/l to 0.14 mg/l in September at stations 18 and 19, respectively. Total phosphorus values were generally highest during June and July and lowest in the fall. In June, the values were highest in the Chattahoochee River stations (mean of 0.23 mg/l) but in July they were higher in the reservoir stations (mean of 0.25 mg/l). In the Apalachicola River, the values were comparable to those in the reservoir with the values at station 19 being only slightly higher during cycles 1-3. Station 12 on Fish Pond Drain had extremely low values of both TIN and total P and station 14 on Spring Creek showed low total phosphorus, but high TIN. Dissolved orthophosphate values comprised a low percentage of the total phosphorus concentration; usually less than 20%. Total Kjeldahl nitrogen as measured on cycles 4-6 showed no significant areal variations.

Due to the limited sampling dates for other water quality parameters such as potassium, sodium, and organic nitrogen, discussion will be delayed for these until the Phase II Annual Report when comparisons can be better substantiated. Further comparisons and discussion will be made for all parameters also in the Phase II report after the second year of data collection.

Bacteriology

Bacteriology results are included in Appendix D. Samples were collected for Fecal Coliform and Fecal Streptococci during the third through sixth sampling cycles for all the water quality sampling stations plus two stations near public park facilities, Bl and B2. Due to equipment malfunctions, bacteriological results are missing or incomplete for stations O1 through O6 and 12 from the second sampling cycle in June, and for station 16 from the fifth sampling cycle in September. Although a complete set of data was not obtained, enough data was obtained

to establish several trends. Generally the Chattahoochee stations were rather low in fecal coliforms with most stations under 100/100 ml. Stations 05 and 06 near the lower end of the Chattahoochee were higher with values ranging from 100/100 ml to 600/100 ml. The Flint River stations were significantly higher; especially during cycle 2 when the count reached 2500/100 ml. Reservoir stations as well as Spring Creek, Fish Pond Drain and stations B1 and B2 were all low in coliforms. State standards for coliforms are 1000/100 ml in Georgia for waters classified for fishing and 200/100 ml in Florida for Class II waters, (Recreation - Propagation and Management of Fish and Wildlife) so coliform counts did exceed these standards several times throughout the study. Fecal strep counts tended to be highest on the Apalachicola and Chattahoochee and low in the reservoir itself along with Spring Creek and on the Flint River. Fecal coliform to fecal strep ratios as shown in Appendix D tend to indicate that human sources of contamination predominate on the Flint; and agricultural sources on the Chattahoochee.

Sediments

Complete surface sediment data and gradation curves are presented in Appendix L.

Physically, the sediments in the Chattahoochee, Flint and Apalachicola Rivers can be considered sand. Sediments in the reservoir itself range from sand at station 10 to loam at station 11. A physical description and classification of the sediment at each station is presented in Table 7. Generally, values for volatile solids and total organic carbon (TOC) tended to depend on the physical nature of the sediments. Those stations which were composed primarily of sand were low in volatile solids and TOC. The stations with a somewhat higher percentage of silts and clays, which are characterized as loamy sands and sandy loams and loam, such as stations 07, 09, 11, 13, 14, and 15 had higher values for volatile solids and TOC. Similarly, oil and grease and nutrient levels (measured by total Kjeldahl nitrogen (TKN) and total phosphorus) were higher at those stations characterized as sandy loam or loam.

Metals analyses were run on the sediments for Cu, Fe, Pb, Mn, Hg, Cd, Ni, Zn, As and Cr. The highest values for these parameters were found at station 14 in Spring Creek (see Appendix L) with concentrations for all the metals except arsenic ranging from 4 to 10 times higher than anywhere else in the study area. The reason for these higher levels is presently unknown.

Pesticide concentrations were generally below detection limits although levels of PCB and 2-4D were found at some stations. Station 03 on the Chattahoochee and station 09 in the reservoir showed the

TABLE 7

LAKE SEMINOLE MATER QUALITY MANAGEMENT STUDY DESCRIPTION AND CLASSIFICATION OF SEDIMENTS FOR PHASE I (APRIL, 1978 THROUGH NOVEMBER, 1978)

%Fines (<#200 Sieve)	0.83 8.05 19.6 3.0 5.7 16.2 7.0 41.8 14.8 66.5 10.5 19.4 25.0 25.0 25.0 25.0 25.0 25.0 25.0
%Gravel (>#4 Sieve)	20.0 12.6 19.2 3.1 17.4 0 0 0 0 1.1 0 0 0 0 0 0 1.1 1.1
U4	9.4 15.0 9.3 6.6 8.1 7.0 7.0 7.8 30.3 30.3 33.3 4.4 18.4
D ₁₀ 3 (nm)	0.16 0.08 0.05 0.09 0.08 0.08 0.05 0.01 0.02 0.03 0.03 0.03
0 ₆₀ 2 (mm)	1.5 1.3 0.33 0.73 0.73 0.15 0.19 0.30 0.30 0.30 0.30 0.30
U.S.D.A. Textural Classification [Chow, 1964]	Loamy Sand Sand Sand Sand Sand Sand Sand Sand
%Clay (<.002 mm)	00.0 0.11.3 23.5 4.7.7 100 100 0
%Silt (.002- .05mm)	25 4.1 7.8 1.2 8.5 7 7 7 12 14 10 10
%Sand (.05 _T 2mm)	75 70.3 73.8 84.3 79.3 92.5 92.5 62 76 89 89 88 88 98 100
Station	01 02 03 05 06 07 07 11 11 11 11 11 11 11 11 11 11 11 11 11

NOTES:

Sand includes all particles >0.05 mm. D_{60} = diameter at which 60% of the particles are finer than the value shown. D_{10} = diameter at which 10% of the particles are finer than the value shown. $0^{-1} = 0_{60}/D_{10}$ = uniformity coefficient.

highest concentrations of both PCB (AR1260) and 2-4D as follows:

	Station 03	Station 09
PCB(AR1260)	419 ppb	365 ppb
2-4D	569 ppb	275 ppb

PCB(AR1260) was generally highest in the Chattahoochee River stations (mean 188 $\mu g/kg$ for stations 1-6) and also high in the Apalachicola River (mean 172 $\mu g/kg$ for stations 18 and 19) compared to the other stations. Values in the Flint River, Fish Pond Drain, and Spring Creek were all less than 1.5 $\mu g/kg$. The levels of 2,4D were also highest in the Chattahoochee River stations (mean 118 $\mu g/kg$) and at station 9 as noted above. The values for the remaining stations were all below 6 $\mu g/kg$. Again, the reason for this concentration distribution is presently unknown partially due to the limited sampling dates.

Corbicula

Corbicula were found at stations 08, 12, 15, 16 and 19 during cycle 4 in August. Heavy metals analyses were run on all five samples. Chlorinated hydrocarbon analyses were conducted only on the samples from stations 12 and 19 because these were the only sites where sufficient Corbicula were found. The results of these analyses are shown in Appendix K. Heavy metal concentrations in Corbicula tissues ranged from just above to 2.3 times the detection limit for selenium to 44-65 times the detection limit for lead. Tissue heavy metals concentrations exhibited very poor correlations with corresponding sediment metals concentrations, i.e. all r^2 <0.70. Of the seven heavy metals for which tissue analyses were performed, a Food and Drug Administration (FDA) Action Level has been established only for mercury, 1.0 ppm for shellfish, approximately an order of magnitude above the highest observed tissue concentration. Of the 18 chlorinated hydrocarbons analyzed only two, chlordane and endosulfan sulfate, were detected in Corbicula tissues from either of the two sites where sufficient sample volume was obtained. An FDA Action Level for fish of 0.3 ppm has been established for chlordane. This level is over 7 times the highest level observed (FDA, 1979).

Algal Growth Potential

The ability of the waters of Lake Seminole to support algal growth was measured three times during Phase I of the project. Eleven stations (Table 3) were analyzed during cycle 1 (April), cycle 3 (July), and cycle 5 (September). The complete data base including background water quality analyses of the nitrogen and phosphorus forms and concentrations occurring in the samples assayed for algal growth potential are shown in Appendix G. The AGP results submitted to the Environmental

Protection Agency's Data Storage and Retrieval System (STORET Code 70988) consists of the mean of the average of the 12 day and 14 day growth in the unspiked water. Due to poor growth of test algae after day 10 in the Algal Growth Potential test for the third sampling cycle in July, the test had to be concluded and was rerun. For assays of stations 12, 13 and 15 some of the EDTA spiked replicates were omitted due to insufficient sample volume. In addition, two replicates at station 12 were inadvertently omitted from the counting procedure (see Appendix G). In general the chemical analyses showed that dissolved ortho-phosphate was released from the condensed phosphate fraction during autoclaving. Total soluble inorganic nitrogen (TSIN) also increased slightly in many of the samples due to autoclaving. Most of these increases were due to ammonia released from the organic nitrogen fraction. Total Kjeldahl nitrogen and total phosphorus decreased slightly in most samples after processing.

In general, the condensed phosphorus and organic nitrogen fraction was not used for algal growth. Results of the replicated spiked and unspiked samples counted at 12 and at 14 days agreed within the ± 20 percent precision considered acceptable for the results of this type of assay.

Table 8 summarizes the overall mean algal growth potential and primary limiting nutrient as determined by analysis of nitrate, ortho-phosphate and EDTA spikes. The algal biomass produced in the unspiked lake water is indicative of moderately high to high productivity as defined by Miller et al. 1974. These authors surveyed algal growth potential in 49 lakes and set up four categories of relative productivity based on algal growth potential:

Low $0 - 0.1 \text{ mg } 1^{-1}$ Moderate $0.11 - 0.8 \text{ mg } 1^{-1}$ Moderate High $0.8 - 6.0 \text{ mg } 1^{-1}$ High $6.0 - 20.0 \text{ mg } 1^{-1}$

Comparing the algal growth potential categories with trophic state as defined by other characteristics, Miller et al. 1974 found that lakes with moderately high or high algal growth potential were classed as eutrophic.

The algal growth potential in the reservoir proper (stations 09, 10, 11, 13, and 15) decreased over the course of the summer. Algal growth potential at station 18, below the dam, followed the pattern of the reservoir stations. Stations 12 and 14, located in relatively isolated areas of the reservoir showed a much lower algal growth potential than the reservoir or the river stations.

The stations located upstream in both the Flint (station 16) and Chattahoochee (stations 06 and 07) Rivers generally had higher algal growth potentials than the stations located in the main body of the reservoir. Station 16, located below the city of Bainbridge, GA, had

TABLE 8

LAKE SEMINOLE WATER OUALITY MANAGEMENT STUDY
SUMMARY OF ALGAL GROWTH POTENTIAL RESULTS FOR
PHASE I (APRIL, 1978 THROUGH NOVEMBER, 1978)

	Algal G and Pri	rowth Potential (m mary Limiting Nutr (N or P)2	$(3)^{-1}$
Station Number	Cycle 1 April 17-21, 1978	Cycle 3 July 17-20, 1978	Cycle 5 Sept. 25-27, 78
06	9.53(P)	5.89(N)	7.66(P)
07	8.89(P)	6.19(N)	8.27(N)
09	7.81(P)	4.94(N,P)	4.39(N)
10	8.41(P)	3.47(N)	3.12(N)
11	9.75(P)	5.63(N)	2.81(N)
12	1.45(P)	2.36(P)	1.44(N)
13	11.4(P)	5.22(P)	4.77(P)
14	3.62(P)	2.40(P)	2.11(P)
15	14.9(P)	5.16(P)	8.94(P)
16	13.4(P)	14.7(P)	23.9(N)
18	10.3(P)	5.72(P)	3.29(N)

NOTES:

- 1. Mean of both 12 and 14 day counts with no nutrients added.
- 2. (N) = Limited by total soluble inorganic nitrogen
 - (P) = Limited by available phosphorus

the highest overall algal growth potential of all stations. No toxic responses were evident in the algal assay data at this station even though other biological population measurements (phytoplankton, ATP, zooplankton) suggest that a toxic impact may limit plankton population development in the reach below Bainbridge. If a toxic factor is present at station 16 it is apparently removed by autoclaving and/or filtration.

The results of nitrate, phosphate and EDTA spiked tests show that trace metals do not limit algal growth response. Areal differentiation of the primary limiting nutrient occurred during the course of the summer. During the spring the entire reservoir was phosphorus limited. As shown in Table 8 many areas became nitrogen limited over the course of the summer months. At the present time, the reason for this is uncertain.

Phytoplankton

In general, the Lake Seminole phytoplankton counts show what one would expect (Fogg, 1975) in an impoundment system. During the April sampling period, the water temperature ranged from 18 to 23°C. Diatoms made up the largest percentage (77%) of the phytoplankton association with Melosira distans being the most abundant (Appendix H). Asterionella formosa, which prefers cooler water (Werner, 1977), was also found during April (Appendix H).

As the water temperature increased during the summer (27 to 30°C during the August and September sampling periods) there was a shift in the algal plankton association from diatoms which prefer temperatures below 30°C to blue-green algae which can grow well above 34°C (Werner, 1977). During both August and September, blue-green algae made up 76 percent of the plankton association (Table 9). During this time of the year, there was also a shift from phosphorus to inorganic nitrogen being the limiting factor at many stations (Table 8). Many of the blue-green algae found are capable of nitrogen fixation and would be able to grow well even where nitrogen was limiting.

During the sampling periods, no algal blooms of only one or two species were observed. The lack of a spring and/or fall phytoplankton bloom may have been the result of the high turbidity in the rivers since this is a known effect of high turbidity (Werner, 1977). Instead there was a gradual phytoplankton increase from an average of 1,951 cells/ml in April to 14,729 cells/ml in September. Generally, the reservoir stations (09, 10, 11, and 13) had higher numbers of cells/ml than these overall averages. Stations 01, 02, and 03 on the Chattahoochee River had higher population densities than average also, probably due to high algal densities in the reservoir upstream of these stations. At the other extreme, stations 16 and particularly 17 had drastically lower than average phytoplankton densities (Table

TABLE 9

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY SUMMARY OF PHYTOPLANKTON COUNTS BY MAJOR DIVISION FOR PHASE I (APRIL, 1978 THROUGH NOVEMBER, 1978)

	Cycle 1 April 17-21	Cycle 1 April 17-21, 1978	Cycle 2 June 5-7, 1978	2 1978	Cycle 3 July 17-20, 1978	3 1978	Cycle 4 Aug. 14-17, 1978	4 1978	Cycle 5 Sept. 25-27, 1978	5, 5, 1978	Cycle 6 Nov. 28-30, 1978	6 1978
Taxa	Cells/ml ¹	Percent ²	Cells/ml Percent	Percent	Ce 1 15/m1	Percent	Cells/ml	Percent	(e) 1s/m)	Percent	Cells/ml	Percent
OPHYTA	6,360	17	16,973	61	36,753	50	35,227	14	48,048	11	40,614	36
CHRYSOPHYTA	28,812	87	32,976	38	19,141	11	24,790	10	16,461	9	31,053	22
Chrysophyceae	354	1	85	٢.	9	Ţ	260	٦	254	٠,	147	7
Bacillariophyceae	28,453	11	32,668	37	18,913	20	24,351	5	16,110	9	30,815	23
CYANDHYTA	1.790	'n	36,445	42	123,261	68	196,257	92	214,048	76	41,199	98
EUGLENOPHYTA	83	ů	168	ŗ	410	. 1	326	٠1	390	2	252	۲
PYRRHOPHYTA	19	⊽१	552	-1	959	⊽I	655	⊽i	106	च	205	٦١
TOTALS	37,064	100	87,114	100	180,221	66	257,255	100	279,848	66	113,620	8

ROTES.

Curulative cell density (Cells/ml) for all stations per cycle.

Percent of total cumulative cell density for all stations per cycle. . ~

10). The reason for this is unknown but could suggest either a toxic response from materials entering the Flint River upstream or the Flint River may normally have low phytoplankton populations. A study to further investigate this is currently being proposed.

Of the diatom species found, most were characteristic of water with a pH near 7.0 (Partick and Reimer, 1966, 1975). Only a few frustules of genera characteristic of low pH (acidic water) such as Eunotia, Tabellaria, and Pinnularia were found. These were probably washed into the system from a tributary or in runoff.

A complete listing of phytoplankton cell densities by taxa at each station is given in Appendix H.

Zooplankton

The results of the Lake Seminole zooplankton counts are shown in Appendix I. The data show the distribution of various taxonomic groups and population size at 19 stations within the study site as shown on Figure 1. Table 11 is a summary of the number of taxa and population density at each station during the survey.

The summary table shows evidence of an impact at stations 16 and 17 similar to that shown for phytoplankton. There is a marked reduction in zooplankton at these two stations with station 17 generally having fewer organisms than station 16. As with the phytoplankton, a study to further investigate these low zooplankton densities is currently being proposed.

Zooplankton were most abundant during cycle 5 in September with a mean station concentration of 96 organisms/l. Phytoplankton densities were also greatest during this month (Table 9). During cycles 3 through 6, the Rotifera comprised 50-91 percent of the total zooplankton populations. In April and June however, cladocerans comprised 56 and 32 percent, respectively, of the total zooplankton populations and were the most abundant.

Considering the total number of species shown in Table 11, there is little variation in the number of taxa found at each station during the year.

Immature copepods represented the most abundant form of arthropods.

Bosmia and Diaphanosoma were the predominant genera of cladocerans found during the year.

TABLE 10

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY SUMMARY OF PHYTOPLANKTON COUNTS BY STATION FOR PHASE I (APRIL, 1978 THROUGH NOVEMBER, 1978)

ınt	No. Taxa	5 2	22	52	27	52	32	52	27	33	18	53	20	44	43	35	36	34	31	33	
le 2 - 300 Unit Count	Cells/ ml.	4,326	3,746	2,342	2,587	1,259	1,514	1,478	1,878	11,944	17,947	9,195	15,377	2,306	1,724	2,232	244	164	3,854	3,178	
Cycle 2 le 5-7, 1978 - 30	Cells/ Count	496	588	453	202	462	481	509	467	1,507	1,476	932	4,263	839	695	1,338	277	184	962	602	
June	Units/ Count	305	315	307	304	303	303	307	301	305	303	303	304	305	302	305	$100\frac{3}{2}$	833	302	302	
Count	No. Taxal	24	32	23	22	13	11	24	15	40	41	41	55	53	59	61	41	49	39	38	
Sycle 1 1978 - 300 Unit	Cells/ ml.	3,230	2,450	2,541	2,299	1,884	1,738	1,807	1,974	2,331	1,995	2,544	2,824	2,152	1,247	249	379	175	2,241	3,064	
11 17-21,	Cells/ Count	501	206	593	449	511	534	469	550	559	519	544	610	524	414	235	273	184	458	510	;
Apr	Units/ Count	301	303	303	305	303	304	304	302	303	304	302	302	303	303	1015	1015	206	302	303	,
· •	Sta. No.	01	05	03	04	05	90	07	80	60	10	11	12	13	14	15	16	17	18	19	

See Appendix H. Less than 300 units counted per sample due to paucity of organisms and much silt in sample. Less than 150 units counted per sample due to paucity of organisms and much silt in sample. Minimum of 300 units changed to 150 units via WAR letter to COE on October 10, 1978. No sample collected due to low water conditions and boat and motor problems. 5.43.5 NOTES:

TABLE 10 (continued)

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY SUMMARY OF PHYTOPLANKTON COUNTS BY STATION FOR PHASE I (APRIL, 1978 THROUGH NOVEMBER, 1978)

Count ⁴	No. Taxa	39	39	43	51	43	43	20	45	47	25	48	41	41	44	32	51	43	41	37
4 150 Unit	Cells{	17,883	17,742	21,217	12,773	21,964	14,654	17,156	13,262	17,653	22,680	23,803	1,246	27,471	1,515	6,794	869	144	10,848	6,979
Cycle 14-17, 1978 -	Cells/ Count	1,026	950	933	733	996	897	1,116	791	945	1,171	1,047	530	1,576	354	442	471	164	747	287
Aug.	Units/ Count	151	152	153	155	151	151	151	150	151	152	151	151	333	151	152	151,	125	151	151
Count	No.1 Taxa	44	41	39	47	44	41	52	47	49	49	49	35	63	28	45	44	42	4 8	47
Cycle 3 17-20, 1978 - 300 Unit	Cells/ ml.	10,539	10,067	7,056	10,319	8,916	4,305	9,769	8,682	12,942	12,335	31,240	901	15,418	1,569	16,032	860	869	11,658	7,115
	Cells/ Count	1.008	943	756	947	1,125	881	1.121	1,445	1,089	1,132	2,867	371	2,094	573	1,901	436	465	1,895	1,607
y (nC	Units/ Count	303	305	304	304	302	304	302	302	315	301	302,	151	304	302	302	304	205	302	303
	Sta.	2	20	03	04	05	90	07	80	60	10	11	12	13	14	15	16	17	18	19

See Appendix H. NOTES:

Less than 300 units counted per sample due to paucity of organisms and much silt in sample. Less than 150 units counted per sample due to paucity of organisms and much silt in sample. Minimum of 300 units changed to 150 units via WAR letter to COE on October 10, 1978. No sample collected due to low water conditions and boat and motor problems.

TABLE 10 (continued)

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY SUMMARY OF PHYTOPLANKTON COUNTS BY STATION FOR PHASE I (APRIL, 1978 THROUGH NOVEMBER, 1978)

ount	No.1 Taxa	445 445 33 33 35 35 35 35 35	32
le 6 - 150 Unit Count	Cells/ ml.	12,574 9,955 7,023 7,023 5,836 8,368 7,535 5,893 9,097 11,431 11,229 6,870 3,524 2,562	163 6,483
Cycle . 28-30, 1978 -	Cells/ Count	890 628 524 581 442 442 442 372 459 459 289 235	127 347
Nov.	Units/ Count	152 152 153 153 151 151 155 160 ₅ 153 153	151 154 ₅
Count	No.1 Taxa	9 4 8 8 8 4 4 4 4 4 8 4 8 4 8 9 8 9 8 9	34 46 46
Cycle 5 1978 - 150 Unit Count	Cells/ ml.	21,806 24,631 28,087 15,203 24,143 10,016 13,414 13,726 37,797 28,630 2,582 23,330 1,101 1,391	688 9,901 5,621
25-27,	Cells/ Count	959 989 913 756 831 632 744 709 1,095 1,095 803 246 698	236 587 538
Sept.	Units/ Count	156 151 151 153 153 156 152 151 151	153 153 153
	Sta. No.	01 03 04 00 00 00 11 11 11 11 11 11 11 11	17 18 19

See Appendix H. NOTES:

Less than 300 units counted per sample due to paucity of organisms and much silt in sample. Less than 150 units counted per sample due to paucity of organisms and much silt in sample. Minimum of 300 units changed to 150 units via WAR letter to COE on October 10, 1978. No sample collected due to low water conditions and boat and motor problems. ∺ % £ 3. °.

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY SUMMARY OF ZOOPLANKTON ORGANISM CONCENTRATIONS AND NUMBER OF TAXA OBSERVED AT EACH STATION SAMPLED DURING PHASE I (APRIL, 1978 THROUGH NOVEMBER, 1978)

9-30 9-30	NO. Taxa ²	16 20 20 16 17 17 18 19 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10
Cycle 6 Nov. 28-30	No. Org. ¹	41 65 51 36 61 61 12 38 64 77 77 77 77 77 77 62 63 62 63 63 64 64 64 64 64 64 64 64 64 64 64 64 64
25.5	No.2 Taxa	23225555555555555555555555555555555555
ان ق	No. 1 Crg. 1	104 273 273 134 134 128 146 97 164 152 2 2 2 3
4 +	Taxe 7	75557787555575555
Cycle Aug.	No. 1 Org:	288 23 4 4 6 6 2 3 3 3 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
3 17-20	Mo. 2 Taxe	200 200 200 200 200 200 200 200 200 200
Cycle July 1	No. 1 Org. ¹	62 27 27 27 27 27 27 27 27 27 27 27 27 27
. 2 5-7	NO.2 Taxa	207 - 202 - 102 -
Cycle 2 June 5-7	Mo. 1 Org. 1	8 17 17 5 8 8 8 8 8 10 10 10 10 10 10 10 10 10 10 10 10 10
e 1 17-21	No.2 Taxa	
Cycle 1	160. 0rg:	25 55 55 55 55 55 55 55 55 55 55 55 55 5
	Sta. Fo.	100 00 00 00 00 00 00 00 00 00 00 00 00

IOTES:

Number of organisms per liter. See Appendix I. Not sampled due to low water levels. Not sampled due to equipment failure (i.e., boat motor problems)

ATP Test Results

The ATP concentration from the depth integrated water sample at each station ranged from 5 ng/1 to 563 ng/1. The highest value was found at station 13 during the June 1978 sampling period. The ATP results are shown in Table 12.

Comparison of phytoplankton densities (Table 10) to ATP concentrations (Table 12) at each station shows that the correlation between them is poor. This is because of the great difference in cell size of the organisms. A diatom such as Navicula cryptocephala may be 40 μ long and 18 μ wide in contrast to a blue-green alga such as Microcystis incerta which has spherical 1 μ diameter cells making up each colonial unit. Therefore, one Navicula cell would contain a much greater amount of ATP than a Microcystis cell. For example, at station 12 on the June 1978 trip the cells/ml number is high while the ATP concentration is low. However, upon looking at the organisms at station 12 on this date, it is found that the dominant organisms were Aphanocapsa delicatissima and Merismopedia glauca both of which have very small cells.

Since the test includes ATP from phytoplankton, zooplankton, and bacteria it is reasonable not to expect a good correlation with any one of these separately or with total chlorophyll. Taken all together however, the trend in ATP concentration tends to follow the trends for phytoplankton, zooplankton and chlorophyll. Generally, the highest ATP concentrations were found at the reservoir stations during the summer. Moderate to high values were also found in the Chattahoochee and Apalachicola Rivers with the lowest concentrations found in the Flint River and at station 12.

Macroinvertebrates

The macroinvertebrate sampling results are summarized in Appendix J. The Chattahoochee River (stations 01 through 07) supports sparse populations of a few species of benthos adapted for a shifting sand environment. These were dominated by Corbicula and turbellarians, with chironomids and oligochaetes being consistently present although in low numbers. The oligochaetes were primarily tubificids and a new species of Enchytraeidae (Loden, 1980). The Flint River stations (16 and 17) were also characterized by shifting sands, however, the species associations were different. These were dominated by Corbicula, with oligochaetes, chironomids and turbellarians as sub-dominants. The oligochaetes were primarily tubificids and naidids. Benthic macroinvertebrate populations in the Flint River did not exhibit the depressed characteristics recorded for zooplankton and phytoplankton.

The open-water, "reservoir" stations (08, 09, 10, 11, 13, and 15) have substrates composed mostly of silt, clay, and detritus. Here the dominant benthic organisms were <u>Hexagenia</u>, tubificids and chironomids. <u>Corbicula</u> and <u>Chaoborus</u> were also common.

TABLE 12

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
SUMMARY OF ADENOSINE TRIPHOSPHATE (ATP) CONCENTRATIONS (ng/1)* FOR PHASE I
(APRIL, 1978 THROUGH NOVEMBER, 1978)

Cycle 6 Nov. 28-30 76 80 80 80 93 93 126 115 86 87 88 88 88 88 88 88 88 88 88 88 88 88
Cycle 5 Sept. 25-27 302 302 96 113 91 163 165 165 167 168 100 240 76 68 68
Cycle 4 Aug. 14-17 71 129 113 92 83 73 71 104 105 86 328 64 < 59
Cycle 3 July 17-20 168 72 60 101 56 104 401 78 59 73 35 39 29 37 471 87
Cycle 2 June 5-7 113 < 95 < 95 < 95 102 117 504 402 26 26 563 63 130 31 34
Cycle 1 88 82 65 141 180 100 84 78 150 80 82 29 79 79 79 79 79 79 79 79 79 7
Station 01 02 03 04 05 06 07 08 09 11 12 13 14 15 16 19

* Not sampled due to low water level and boat problems.

Apalachicola River stations 18 and 19 were located within a gravel bed, a substrate much more conducive to benthic productivity than the sands and silts of the other stations. This area was dominated by Corbicula and Potamyia flava. Chironomids, oligochaetes, and turbellarians are also very abundant.

Station 12 was located in a wide, shallow, relatively stagnant area, with a silty sediment high in detritus and dense, submerged aquatic macrophytes. The dominant benthos were Corbicula, oligochaetes, and chironomids. Hexagenia was present but uncommon. It is likely that macroinvertebrates were much denser here than the benthic data indicate, as the abundant aquatic macrophytes could easily support more macroinvertebrates than the sediments.

Station 14 is similar to the reservoir stations in that it has silty sediments high in detritus, and the benthos was dominated by <u>Hexagenia</u>, tubificids, and chironomids, with <u>Corbicula</u> and <u>Chaoborus</u> being common. The number of taxa was much higher, however, possibly due to the very dense submerged macrophytes.

Evenness and Shannon-Weaver diversity values (base 2) were computed for the benthos and are shown in Table 13. The data from the three samples collected at each station were combined and the values computed from that. The values ranged from 0.33 to 3.24. Comparisons between stations show that the diversities for the Chattahoochee River stations were relatively low for stations 01 through 06 and ranged from 0.55 to 1.69 with an overall mean of 1.09. The highest diversity was found at station 14 (Spring Creek) and ranged from 2.65 to 3.24 with an overall mean of 3.03. The remaining stations had moderate diversities including the reservoir stations which had moderate diversities during April but lower diversities in July and September. Evenness values paralleled diversity; where diversity was relatively high, evenness was relatively high, and where diversity was low, evenness was low. "Biomass" estimates also paralleled diversity values.

Of the total 32 Hester-Dendy artificial substrate samplers placed during Phase I work, only nine were recovered. All but one had densities around 5000 or less organisms per square meter, or about 650 organisms per sampling unit (see Table J7 & J8). The exception occurred at Station 18 (cycle 4), where total density was almost 17,000 organisms per square meter. Due to the lack of sampler recovery in the reservoir and in the Chattahoochee River, it is unknown how this high density compares to levels in these areas. It is assumed that it is high due to abundant food (plankton) in the reservoir during August (see Tables 9 & 11) just upstream of station 18. The diversity values of two of the samplers were low (less than 1.7), while the remainder ranged from 2.0 to 3.3 (Table 14).

TABLE 13
LAKE SEMINOLE WATER OUALITY MAMAGEMENT STUDY
SUMMARY OF BENTHIC MACROINVERTERPATE SHANNON-WEAVER
SPECIES DIVERSITY (BASE 2) AND EVENNESS FOR PHASE I (APRIL, 1978 THROUGH NOVEMBER, 1978)

19/61	le 5 25-27, 1978)	Evenness	0.374	0.528	0.182	0.263	0.780	0.460	0.416	0.366	0.200	0.518	0.677	0.564	0.248	0.681	0.474	0.614	0.576	0.596	0.449
KUUGH NUVERBERG	Cyc (September	Shannon-Weaver Diversity Evenness Index	1.051	1.227	0.5/6	7900	0.803	1.650	1.381	1.353	1.905	1.454	2.505	2.551	0.744	3.202	1.330	2.456	2.401	2.733	1.756
(APKIL, 1978 IN	l	ess	0.551	0.411	0.394	0.254	0.486	0.534	0.579	0.514	0.176	0.409	0.427	0.626	0.441	0.681	0.575	0.484	0.520	0.482	0.494
ISTIY (BASE 2) AND EVENNESS FOR PHASE I (APRIL, 1978 INKOUGH MOVEMBER, 1970)	Cycle 3 (July 17-20, 1978)	Shannon- Weaver Diversity Index	0.551	0.953	1.250	0.591	1.365	1.693	2.143	1.708	0.608	1.416	1.353	1.985	1.526	3.239	1.990	2.247	2.079	2.083	2.135
SASE Z) AND EVENT	Cycle 1	Evenness	909.0	0.473	0.550	0.528	0.590	0.447	0.841	0.726	0.677	0.841	0.664	0.593	0.706	0.767	0.707	0.505	0.625	0.142	0.668
SPECIES DIVERSITY (E	Cycle (April 17-2	Shannon- Weaver Diversity Index	1.407	1.420	0.872	1.227	1.179	1.154	2,795	1.452	2.427	2,792	2, 298	2,718	2.760	2.653	2,617	2.428	0.991	0.329	2.218
SPEC	Station		01	0.5	03	04	05	90	07	08	2	<u>.</u>	2 =	12	<u>.</u>	14	٠ ۲	15	12	18	61

TABLE 14

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
SUMMARY OF HESTER-DENDY MACROINVERTEBRATE
SHANNON-WEAVER SPECIES DIVERSITY (BASE 2) AND EVENNESS FOR PHASE I
(APRIL, 1978 THROUGH NOVEMBER, 1978)

Station	Cycle 2 June 5-7,	1978	Cycle 4 Aug. 14-17, 1978				
	Shannon-Weave		Shannon-Weave				
	Species Diversi		Species Diversi				
	Index	<u>Evenness</u>	Index	<u>Evenness</u>			
01							
02		**					
03							
04	••			•••			
05	••						
06	** **						
07	3.101	0.717					
09	**						
11							
12	2.367	0.712					
13	2.001	0.512	••				
14	**		3.327	0.770			
15	3.048	0.718	~ *				
16			1.685	0.390			
18	2.935	0.751	1.312	0.395			
19	2.934	0.751	••				

NOTE:

(--) Indicates Hester-Dendy Artificial Substrate Sampler was not recovered.

Macrophytes

Aquatic macrophytes are probably the most conspicuous feature of Lake Seminole. Reservoir personnel have identified over 700 taxa of macrophytes from aquatic situations. Approximately 73 taxa were recorded in this survey to be common to abundant (Appendix M). They cover an estimated 40.1 percent of the area of the reservoir (Table 15). They have become a severe nuisance in many locations such as access channels and boat ramps. The distribution of aquatic macrophytes in Lake Seminole is shown in Figure 4 and categorized by location in Table 16.

Submersed vegetation occurs almost everywhere the water is transparent enough to allow sunlight to penetrate to the bottom. Emergent vegetation occurs almost everywhere the water is shallow enough for them to become established. Where the water is too turbid or too deep, floating plants have the potential to become very dense. Intensive spraying of herbicides during 1978 kept the floating plants to a minimum. However, in the Flint River where hyacinths were reduced by herbicide spraying, broken patches of floating algal mats were present over large areas. Spraying has also been conducted over the last few years in a number of small access channels and canals. In every instance, though, aquatic macrophytes were quickly reestablished, and by the middle of the following growing season the macrophytes were once again of nuisance proportions. For this reason, and due to the very high costs, spraying has been conducted generally only on selected areas of high cultural use such as boat ramps and access channels. The morphometry of the reservoir and the relatively high nutrient inputs virtually assure that aquatic macrophytes will be a major management problem for the remainder of the reservoir's life.

TABLE 15

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY ESTIMATED COVERAGE OF AQUATIC MACROPHYTE ON LAKE SEMINOLE FROM 1961 THROUGH 1978

Year 	Estimated Coverage (Acres)	Percent of Total (%)
1961	6,897	18.4
1971	9,709	25.9
1972	5,542	14.8
1973	14,076	37.5
1974	15,126	40.3
1975	20,580	54.9
1977	23,075	61.5
1978	15,001	40.1

NOTE:

1. Values for 1961 through 1977 are estimated total acreages of the 49 most common taxa found by the U. S. Army Corps of Engineers personnel at Lake Seminole, in their series of General Aquatic Plant Surveys of Lake Seminole. 1978 values are total coverage of all aquatic macrophytes found by Water and Air Research, Inc. Differences in methodologies probably accounts for the reduction shown for 1978.

TABLE 16

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
COVERAGE OF AQUATIC MACROPHYTES ON LAKE SEMINOLE,
CATEGORIZED BY LOCATION SURVEYED.

Location	Acreage of Abundanti Vegetation	Acreage of Intermittent ² Vegetation	Total Acreage of Aquatic Macrophytes by Area
Chattahoochee River Area	1,432	905	2,328
Flint River Area	121	1,148	1,269
Apalachicola River Area	03	0	0
Reservoir Area	4,890	2,930	7,820
Spring Creek Area	2,179	96	2,275
Fish Pond Drain	1,309	0	1,309
Totals	9,922	5,079	15,001

NOTES:

- 1 Abundant: macrophytes cover 10 percent or more of the substrate area.
- 2 Intermittent: macrophytes cover less than 10 percent of the substrate area, usually in scattered clumps.
- 3 No intermittent vegetation; substrate either bare or abundantly vegetated.

FIGURE 4

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
DISTRIBUTION OF AQUATIC MACROPHYTES DURING PHASE I
(APRIL, 1978 THROUGH NOVEMBER, 1978)

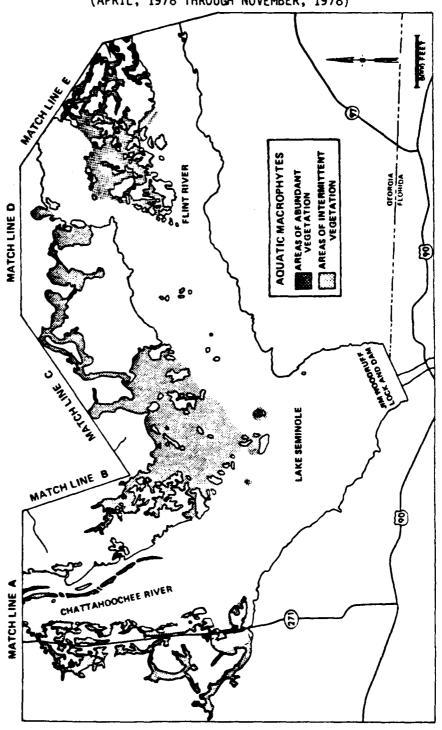
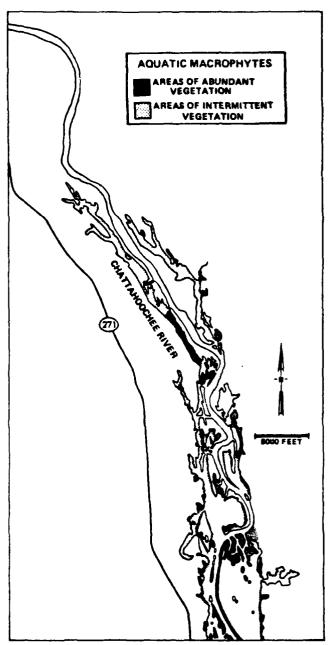


FIGURE 4 (continued)



MATCH LINE A

FIGURE 4 (continued)

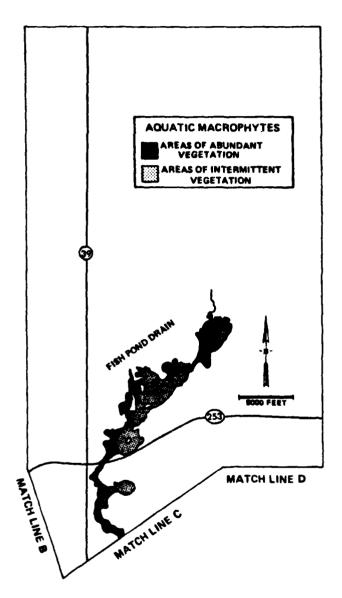
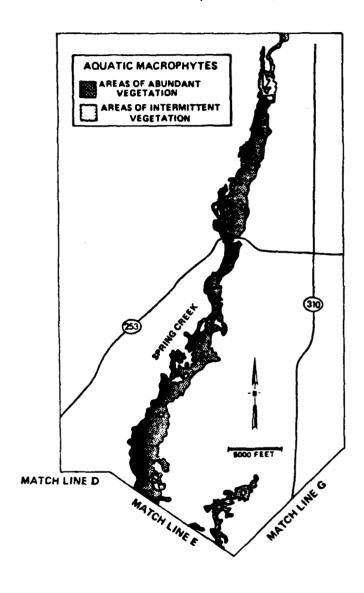
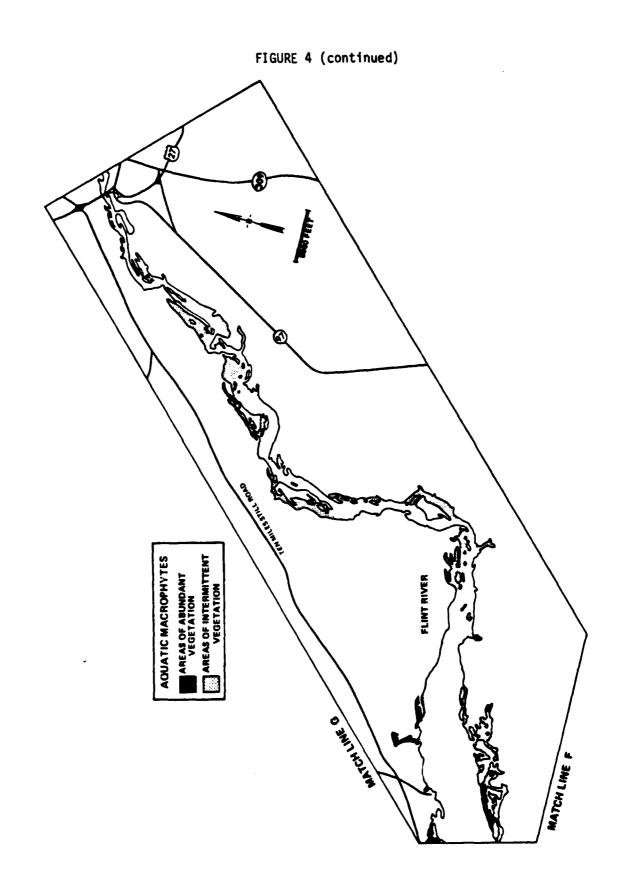


FIGURE 4 (continued)





SUMMARY

The purpose of Phase I of the Lake Seminole Water Quality Management Study was the establishment of a comprehensive water quality, sediment, and biological data base at various sites within the impoundment, in the backwater stretches of the major tributaries, and immediately downstream of the outfall on the Apalachicola River. This data base is to be utilized for the combined purposes of future reference, guidance in the improvement of reservoir operations, facilitation of coordination with state agencies in the implementation of watershed pollution control measures, and identification of significant water quality problems.

Meteorological, hydrological, water quality, sediment, and biological data were obtained at a total of 19 main sampling stations in Lake Seminole, the Chattahoochee River, the Flint River, Spring Creek, Fish Pond Drain, and the Apalachicola River during 6 sampling cycles from April 17, 1978 through November 30, 1978. Limited sampling and analyses were also performed at 5 special sampling sites at various times during the course of this study. Biological sampling included bacteria, phytoplankton, zooplankton, macroinvertebrates, and aquatic plants.

Average monthly flows through the impoundment ranged from $221~\text{m}^3/\text{sec}$ during November to $1005~\text{m}^3/\text{sec}$ during May. During the study period, the Chattahoochee River accounted for 60--80 percent of the flow into the impoundment. As a result of operational procedures at the Walter F. George Lock and Dam on the Chattahoochee River upstream of Lake Seminole, flows through the Chattahoochee River impoundment arm exhibited considerable short term variation.

In general, each of the major impoundment arms of Lake Seminole tended to be well-mixed both laterally and vertically. Little lateral variation and essentially no vertical stratification was observed in temperature, dissolved oxygen, pH, or oxidation-reduction potentials during either spring (April) or summer (August) sampling cycles during which extensive in situ sampling was performed. Although surface warming at most Take stations was evident during the early summer (June and July), the shallowness of the impoundment prevented the development of a well-defined thermocline.

Average turbidity levels in the Chattahoochee River were approximately three times those in the Flint River with suspended solids, Secchi disk, and percent light transmittance exhibiting the same general areal pattern over the course of the study. Concentrations of most of the other inorganic water quality parameters, except nutrients, showed no significant areal or chronological patterns. Concentrations of all sampled metals, except iron, were generally low

with no obvious areal patterns. Concentrations of total iron at most stations during the spring and early summer months exceeded the EPA criterion of 1.0 mg/l for freshwater aquatic life.

Total inorganic nitrogen ranged from 0.30 to 0.75 mg/l at Flint River stations to 0.08 to 0.53 mg/l at Chattahoochee River stations with highest concentrations in the spring, decreasing to a mid- or late-summer minimum and increasing again in the fall. Total phosphorus concentrations were generally highest during June and July and lowest in the fall. In June, the values were highest in the Chattahoochee River stations (mean of 0.23 mg/1) but in July they were higher in the reservoir stations (mean of 0.25 mg/l). In the Apalachicola River, the values were comparable to those in the reservoir with the values at station 19 being only slightly higher during cycles 1-3. In general, based on nutrient content, the waters of Lake Seminole tended to be moderately high to highly productive with respect to the production of algal biomass. On the basis of potential algal production alone, the system would be classed as eutrophic. During the spring, the system was phosphorus limited, with many areas becoming nitrogen limited as the summer progressed. Trace metals did not appear to limit algal growth.

Phytoplankton populations were characteristic of a system of this type. Algal blooms consisting of only one or two dominant species were not observed and may be a result of the relatively high turbidity of the system. Algal populations tended to increase gradually during the study from an average of 2000 cells/ml during April to over 14,500 cells/ml in September, with the corresponding shift in the plankton associations from diatoms to blue-green algae attributable to temperature as well as nutrient content. In general, the lake stations and the uppermost Chattahoochee River stations tended to exhibit higher than average cell densities. Stations 16 and 17 on the Flint River had extremely low phytoplankton densities. It is presently unknown if this is a toxic response or if these low densities are simply normal for the Flint River.

Zooplankton assemblages exhibited little variation in the number of taxa found at each station during the year. However, zooplankton densities were greatest during cycle 5 in September (overall mean of 96.3 organisms/l). At stations 16 and 17 there was a reduction in zooplankton densities similar to that shown for phytoplankton. Generally, station 17 had fewer organisms than station 16 and a study to further investigate the low zooplankton and phytoplankton concentrations is currently being proposed since the reason for these low densities is unknown. Copepods and cladocerans represented the most abundant arthropods with immature copepods being the most common.

The bacteriological quality in Lake Seminole ranged from good in the upper Chattahoochee River stations and at the lake stations where fecal coliform levels were generally below 100/100 ml, to poor at station 17 in the Flint River in the vicinity of Bainbridge where fecal coliform concentrations in excess of 2,500/100 ml were observed in June. The fecal coliform to fecal streptococci ratios tend to indicate that human sources of contamination predominated in the Flint River and agricultural sources predominated in the Chattahoochee River.

ATP concentrations tended to follow the same general trends as phytoplankton, zooplankton, and chlorophyll. However, due in part to differences in total biomass, only a poor correlation existed between individual assemblages.

Bottom sediments ranged from relatively clean sands in the Chattahoochee, Flint, and Apalachicola Rivers to sand and sandy loams in the impoundment itself. The organic and nutrient contents tended to be related to the percent fines. Heavy metals concentrations were generally low. The concentration of most of the pesticides analyzed were below detectable limits, although levels of the polychlorinated biphenyls (PCB) Arocblor 1254 and 1260 and the herbicide 2-4 D were found in sediments taken at most stations in the Chattahoochee River and impoundment at concentrations as high as 753 μ g/kg dry weight, 419 μ g/kg dry weight, and 569 μ g/kg dry weight, respectively.

Benthic macroinvertebrate populations tended to be closely associated with the nature of the supporting substrate. Chattahoochee and Flint River stations exhibited sparse populations adapted to a shifting sand environment, although the species associations were dissimilar. Lake stations supported populations adapted to a substrate composed of finer sands, silts, and clays. The sampling sites in the Apalachicola River were characterized by a coarser, more productive substrate. Benthic diversities ranged from relatively low in the Chattahoochee River to moderate in the Flint and Apalachicola Rivers with the diversities in the reservoir varying seasonally from moderate to low, with lowest diversities occurring towards late summer. Evenness and biomass tended to closely parallel diversity. Recovered Corbicula were analyzed for 7 heavy metals and 18 pesticides although sufficient tissue was obtained at only two stations for complete pesticide analyses.

Aquatic macrophytes constituted the most conspicuous feature of Lake Seminole. They were a severe nuisance in a number of locations such as access channels and boat ramps. Emergent and/or floating macrophytes covered over 40 percent of the total reservoir surface area and nearly 100 percent of the surface area with a depth less than 2 meters. Approximately 73 taxa were identified during this study as being either common or abundant.

RECOMMENDATIONS FOR FUTURE STUDIES

The following are areas which deserve consideration for future studies.

1. Macrophytes

Aquatic macrophytes are well established on over 40 percent of Lake Seminole, and cover almost 100 percent of the portion that is less than two meters deep. Since the macrophytes are not limited by nutrients or grazing, it is likely that they will continue to increase in extent until blocked by riverine currents or water too turbid to transmit sunlight. Even then, expansion may continue although at a reduced rate, since siltation continues to slowly fill the reservoir. Also, aquatic vegetation increases the rate of siltation (and organic matter deposition), thus increasing the rate of macrophyte expansion. Through this process, aquatic macrophytes may eventually cover the entire lentic portion of the reservoir.

This situation is a result of several factors: (1) The reservoir is generally very shallow, and in most places the water is sufficiently transparent to allow insolation to penetrate to the bottom of the water column. (2) The availability of nutrients to macrophytes from upstream sources is essentially unlimited. (3) The number of macrophyte species is so diverse, that even if a "perfect" herbicide could be developed to completely eliminate a species from the reservoir, there are dozens of species that would be able to quickly invade and repopulate the area. This is readily borne out by the experiences of reservoir personnel (D. Vickers, pers. comm.), where choked access channels were sprayed one year for Species A, and the following year they were choked with Species B.

Past management practices have been limited to small areas of high user demand due to the high economic costs. In 1978, for example, about 1,080 acres were sprayed or chopped for an estimated total cost of \$76,095. This is an average cost of \$70.46 per acre. Also, only a small portion of the areas needing plant control were treated. Lake Seminole Reservoir personnel are now asking for \$195,700 to treat 2,000 acres in 1979 (\$98.35 per acre), and \$309,525 to treat 3,050 acres in 1980 (\$101.48 per acre).

Clearly, these expensive measures can provide only temporary relief from the symptoms of greater problems. It is quite possible that a more lasting and less expensive solution(s) exists. Water level drawdowns, for instance, have proven very beneficial in various lakes in Florida. The Lake Seminole Reservoir is a far more complex system physically than the average lake, however. A combination of several

kinds of treatments may be necessary in this shallow, nutrient-rich and most botanically diverse reservoir.

2. Intensive Study of Flint River

Analysis of the data, throughout Phase I, identified a marked reduction in phytoplankton, zooplankton, chlorophyll, and ATP levels in the Flint River at miles 24 and 29 (stations 16 and 17, respectively) near Bainbridge, Georgia. It would appear that the river is continuously stressed from a source upstream from station 17 unless the Flint River naturally has low plankton densities. Since station 17 represents the northern extremity of the present study, the limits of these conditions were not defined. The cause of this stress is unknown, but it does not appear to be physical in nature -- no gradients were observed with temperature, dissolved oxygen, conductivity, or pH from stations 15 through 17. Therefore, a study should be conducted to determine the cause, extent, and magnitude of this possible environmental impact, which is identified by the plankton density decreases.

This has the potential for an ideal study that would result in the full identification of a specific environmental impact. It is hoped that this project can be implemented as soon as possible so that the proposed studies can be integrated into the ongoing project and that the cause-effect relationships of this impact can be established.

PARTICIPATING STUDY TEAM Water and Air Research, Inc.

A project team of engineers, biologists, chemists, and technicians conducted the study. The overall project manager was Dr. J. H. Sullivan, Jr., with the assistance of Mr. R. Blum, Mr. B. Bailey and Mr. J. Nichols in logistics, data analysis and field activities. Dr. H. D. Putnam served as coordinator and advisor for the biological activities. Mr. B. Pruitt and Mr. M. Hein were responsible for the field and in-house biologic efforts with the assistance of Ms. P. Dickinson.

Mr. B. Bailey was responsible for the coordination of field water quality sampling and reporting. Analytical procedures were supervised by Ms. C. Hackett and Dr. M. Keirn with the assistance of Ms. Maria Neves, Mr. L. Larson, Mr. P. Nathanson, Mr. M. Timpe and Ms. P. Dickinson. Dr. M. Keirn coordinated the Algal Growth Potential test work. Mr. J. Nichols supervised and coordinated all the computerized data handling with the assistance of Mr. M. Timpe. Field personnel included Mr. R. Blum, Mr. B. Bailey, Mr. B. Pruitt, Mr. M. Hein, Mr. M. Timpe and Mr. M. Putnam. The final copy was produced by Ms. J. Dorsey, Ms. P. Paschall, Ms. D. Nickelson and Ms. C. Pagnozzi.

U. S. Army Corps of Engineers

Mobile District

Mr. Joseph Boda, Environmental Engineer, was the contract manager responsible for contractual compliance, data reliability, and final report acceptability. Dr. Diane Findley, Ecologist, provided biological support to substantiate data accuracy and report quality.

South Atlantic Division Laboratory

Mr. James Nowland, Chemist, and Mr. Herbert Miller, Jr., Chemist provided assistance on chemical data reliability.

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APPENDIX A
STREAM FLOWS

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TABLE A-1
STREAM FLOWS - MONTHLY AVERAGES (cfs)

	Chattahoochee ¹ River at Andrews Lock & Dam	Flint River ¹ at Newton, Ga.	Spring Creek ¹ near Iron City, Ga.	Jim ² Woodruff Lock & Dam
April	10906	7349	NA	24777
May	18383	9711	NA	35488
June	8850	4468	NA	17181
July	6086	2821	NA	11860
August	11769	4311	440	18979
September	7679	2047	NA	10920
October	6482	2118	43	9439
November (through 5th) 4554	2114	33	7821

Source:

 $\mathbf{1}_{\mathrm{USGS}}$, Water Resources Division, Doraville, Georgia

Note: NA = Data not available.

 $^{^{2}}$ U.S. Corps of Engineers, Mobile, Alabama

TABLE A-2
DAILY AVERAGE STREAM FLOWS (cfs)
CYCLE 1

		Chattahoochee ¹ River at Andrews Lock & Dam	Flint River ¹ at Newton, Ga.	Jim Woodruff ² Lock & Dam
April	9	1850	6160	12395
	10	6330	4460	14478
	11	6880	4990	14481
	12	7000	5280	14595
	13	23100	5360	32431
	14	31800	7470	43877
	15	12700	9460	35549
	16	2380	10300	21042
	17	11800	10500	21340
	18	18400	10400	41645
	19	31520	10100	46749
	20	30700	10200	53337
	21	23200	10500	42192
	22	10900	10500	27461

 $^{^{1}}$ USGS, Water Resources Division, Doraville, Georgia

 $^{^{2}}$ U.S. Corps of Engineers, Mobile, Alabama

TABLE A-3
DAILY AVERAGE STREAM FLOWS (cfs)
CYCLE 2

		Chattahoochee ¹ River at Andrews Lock & Dam	Flint River ¹ at Newton, Ga.	Jim Woodruff ² Lock & Dam
May	28	962	3690	13417
	29	9500	3340	14087
	30	10310	4530	14001
	31	10292	5190	14127
June	1	10332	500	14659
	2	10531	4070	16971
	3	2255	4360	18947
	4	3817	5070	16991
	5	13231	6220	17060
	6	12639	6160	19891
	7	10349	6260	28056
	8	16758	5600	26296
	9	24823	5310	33345
	10	9446	5430	31549

 $^{1} \mbox{USGS}$, Water Resources Division, Doraville, Georgia

 $^{^{2}}$ U.S. Corps of Engineers, Mobile, Alabama

TABLE A-4
DAILY AVERAGE STREAM FLOWS (cfs)
CYCLE 3

		Chattahoochee ¹ River at Andrews Lock & Dam	Flint River ¹ at Newton, Ga.	Jim Woodruff ² Lock & Dam
July	9	1062	2500	11190
	10	8660	2370	11604
	11	9268	2620	11536
	12	9352	2860	11287
	13	9284	2870	10904
	14	9144	2830	11632
	15	1461	2770	11606
	16	1003	3150	10899
	17	8110	364 0	10920
	18	9390	4560	11413
	19	6470	4250	13902
	20	5187	3650	13980
	21	7277	3520	11493
	22	2040	3560	11863

 $^{1} \mbox{USGS}$, Water Resources Division, Doraville, Georgia

 $^{^2}$ U.S. Corps of Engineers, Mobile, Alabama

TABLE A-5
DAILY AVERAGE STREAM FLOW (cfs)
CYCLE 4

		Chattahoochee ¹ River at Andrews Lock & Dam	Flint River ¹ at Newton, Ga.	Jim Woodruff ² Lock & D a m
Aug.	6	1231	3940	11168
	7	12200	3530	14189
	8	11700	4110	14130
	9	13000	3450	23713
	10	21300	4160	25798
	11	23500	4420	28836
	12	12700	5950	24004
	13	2470	7010	20660
	14	12400	7120	22189
	15	11900	7640	25036
	16	15100	7280	24517
	17	15100	6570	23261
	18	15200	5370	26195
	19	6940	4156	18788

 $^{^{1} \}mbox{USGS}$, Water Resources Division, Doraville, Georgia

 $^{^2}$ U.S. Corps of Engineers, Mobile, Alabama

TABLE A-6
DAILY AVERAGE STREAM FLOW (cfs)
CYCLE 5

		Chattahoochee ¹ River at Andrews Lock & Dam	Flint River ¹ at Newton, Ga.	Jim Woodruff ² Lock & Dam
Sept.	17	4600	1730	10579
	18	9980	1950	10578
	19	9970	2300	10563
	20	10200	2380	10582
	21	8220	2360	10029
	22	4000	2480	9870
	23	964	2410	9444
	24	1377	1900	9870
	25	8185	1680	9444
	26	8998	1800	9654
	27	8767	1610	9582
	28	8792	1570	9368
	29	8690	1670	9329
	30	1601	1690	9350

 $^{^{1} \}mbox{USGS}$, Water Resources Division, Doraville, Georgia

 $^{^2}$ U.S. Corps of Engineers, Mobile, Alabama

TABLE A-7
DAILY AVERAGE STREAM FLOW (cfs)
CYCLE 6

		Chattahoochee ¹ River at Andrews Lock & Dam	Flint River ¹ at Newton, Ga.	Jim Woodruff ² Lock & Dam
Nov.	19	1000	NA	7579
	20	4170		7475
	21	6030		7352
	22	5830		7575
	23	6030		7575
	24	5990		7332
	25	2500		7390
	26	928	Ì	7254
	27	3890		7349
	28	6420		7432
	29	6140		7461
	30	6220		7695
Dec.	1	4000		NΑ
	2	986	Ť	NA

Note: Daily average flows were not available for Spring Creek or the Flint River.

 $^{^{1} \}mbox{USGS}$, Water Resources Division, Doraville, Georgia

 $^{^{2}}$ U.S. Corps of Engineers, Mobile, Alabama

APPENDIX B
METEOROLOGICAL DATA

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TABLE 8-1

1

** LAKE SEMINDLE WATEP QUALITY MANAGEMENT STUDY ***
CORPS OF ENGINEERS (CONTRACT DACWOI-78-C-0101) PHASE I. CYCLE 1
MISCFLLAMEDUS DATA

STATION 14 4/20/78 STATION STATION STATION STATION STATION STATION STATION STATION OF OF OF OF OT OTHER STATION STATION STATION STATION STATION OF OTHER STATION STATION STATION STATION STATION STATION STATION OF OTHER STATION 000 00: 19.0 10.0 CLOUD COVER (PERCENT)
BINC VELOCITY (PPH)
WIND DIRECTION (DEG FM TRUE N. C.4) PARAMETER NAME (UNITS) PARAMETER NAME (UNITS) METEOROLCGICAL DATA METERROLCGICAL DATA

PARAMETER NAME (UNITS)	STATION 15 4/21/78	STATION 16 4/21/78		STATION STATION STATION STATION STATION STATION 17 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15	N STATION STATION 78 4/19/78 4/17/78	STATIO! A A O A A O	51410N 617174
METEOROL CGICAL DATA				••••			
CLCLD CCVER (PERCENT) WIND VELCCITY (MFH) WIND DIRECTION (DEC FM TRUE N. CW)	000 000 0000	• 0 0	•00	5.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22.5	30. 10.0	10.00

TABLE B-2a

4. LAKE SEMINOLE WATER OUALITY WANAGEMENT STUDY ** COPPS OF FRAINFERS (CONTRACT DACWOI-79-C-0101) PHASE I. CYCLE 2 MISCILLANGOUS DATA

PAPASETES NAME (UNITS)	STATICH 01 6/7/79	STATEON 02 6/ 7/18	STATION 0.3 6/7/79	STATION 04 5/7/18	STATION 05 6/ 7/78	STATION 05 05 05 05 05 05 05 05 05 05 05 05 05	STATION 6/6/70
ME TE OROL CGICAL DATA				• • • •	• • • •		
AIR TFWPERATURE (DEG C) COVER (OFFCENT) WING VELCENTY (MFH)	32.0 50.0	31.0	0.00	28.0 50.0	31.0 20.0	0.00	0.00
WIND DIRECTION (DEG FM TRUT N. CW)	160	061	210	170	150	190	0.
PAHAMETER NAVE (UNITS)	STATION 08 6/ 6/78	STATION 09 6/ 6/ 78	STATION 10 6/ 6/78	STATION 11 0/6/78	STATION 12 6/ 7/78	STATION 13 6/ 5/78	STATION 14 6/ 5/78
METEORULOGICAL DATA					• • • •		
AIR TEMBERATURE (DFG C) CLCUD CCVER (PERCENT) BING VELOCITY (MFH) MING DIRECTION (DGG FM TRUF N. CW)	29.0 100.0 1.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33.0 0.0 0.0	29.0 70. 5.0	32.9 30. 2.5 200	24. 4.0. 9.0. 0.0.	29.0
PARAMETER NAME (UNITS)	STATION 15 6/5/78	STATION 16 6/ 5/78	STATION 17 6/ 5/78	STATION 18 6/ 6/79	STATION 19 6/ 6/78	STATION A0 6/7/7	STATION 6/7770
METECROLCGICAL DATA							
AIR TEMPERATURE (DEG C) CLCUD COVER (PERCENT) AINC VILUCITY (MFH) MIND DIRECTION (DEG FM TRUE N. CW)	28.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	23° 0 745° 0 745° 0	23.0 2.5.0 0.05.0	0.00 0,00 0,00 1	0.00	32.5 60. 5.0 210	0.000 0.000 0.000

TABLE B-2b

PARAMETER NAME (UNITS)	ST4TION B1 6/ 5/79	STATION B2 6/ 6/78	STATION F. 578
ME TE URITLEGICAL DATA			
• (•	
AIM TEMPERATURE (DEG C)	27.0	27.0	33.0
WIND VILGGITY (MFH.)	7. 0.0	300 c	000
WIND DIRECTION (DEG FM TRUE N. CW) .	230	08	; ;

TABLE B-3a

** LAKE SEMINDLE WATER QUALITY MANAGEMENT STUDY ** COFFIS GF ENGINEERS (COMPAGE DATHOL-79-C-3101) PHASE I, CYCLE 3

MISCELLANFING DATA

4	STATION 01 77.177	STATION 02 7/19/78	STATION 03 7/19/78	CTATION 04 7/13/79	574710N 05 771378	STAT104 05 7/20/74	\$14710H 07 7/20/78
METFOURTESTAL DATA							
AIG TEMPERATURE (CHG C) CLCUD CIV'L (P.EC'RT) *IND VELCATY (WIH)	7.01 7.01 7.01	2004 2004 0 • 0	42.0 -0.0 -0.0	0.0 	32.0	26.0 0.	0.01
MING PIESCHIFM (DFG FM TRUT N. CA)	130	33				20	70
PARAFT P NAME (UNITS)	STATION 0.0.1 7/18/79	STATION 00 7/18/78	STATION 13 7/18/78	STATION 11 7/13/79	STATION 12 7/10/79	\$1 AT 110N 13 P 7 / 1 / 7	STATION 14 7/13/78
METETRA LGEGAL DATA							
TEMBERATURE LO COVER (PE E VILOZITY (D DIFECTION	32.0 90. 12.5 230	33.0 30.0 10.0 1 80	32.0 0.00	91.0 25.0 0.0	100.0	0 • 0 0 • 0	30.0
1 2	51AT I UN	STATIUN 16 7/17/78	STATION 17 17 17/17	STATION 18 17	STATION 113 7/19/79	STATION 40 A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	STATION HO T/13/7H
MIT, JOHLGGICAL NATA							
ALC TEMPERATURE (DEG C) CLEUD CCVT: (DEFCERT) WIND VELCCITY (WIH) WIND DIRECTION (FFG FN TAUS N+ CW)	32.0	or o	0.00	0.00	0 • 0 • 0 • 1 • 0 • 1	32.0 10.0 10.0 10.0	0.00 m-c
	•				,		1

TABLE B-3b

CAIND) ARN HICL REPER	514110N B. 1674177	STATION STATION STA	STATION F3 7/19/73
PRINCE LCGICAL DATA			
AIR TEMPERATURE (DEG C) CLELD CEVER (DARGENT) WING VOLUCITY (MRH)	0 + 0 • 0 + 0 • 0 = 0	33.0 20.0	31.0
* #IND DIRECTION (DEG EN TRUE N. CW)	!	011	0 + 1

TABLE B-4a

** LAKE SEMINGLE WATER QUALITY MANAGEMENT STUDY **
CORPS OF FINGINEERS (CONTRACT DACWOI-78-C-0101) PHASE I. CYCLE 4
MISCFLLANGOUS DATA

PAKAMFTER NAME (UNITS)	STATION 01 8/17/78	STATION 02 8/17/78	STATION 03 8/17/18	STATION 04 8/17/78	STATION 35 8/17/78	STATION 06 67.1773	STATION 07 8/16/78
METEOROLCGICAL DATA							
AIF TEMPERATURE (DEG C) CLOUD COVER (PFR(FN1) WIND VELCCITY (MPH) WIND DIRECTION (DEG FW TRUF N. CM)	31.0	32.0 10. 2.5	0.00	0.00	0 • 0 • 0 • • 0 •	0 • 0 • 0 • 1 • 0 • 1	စ္စ္ •၀• •ဏ၀ ၏
PARAMFTER NAME (UNITS)	STATION 08 8/16/78	STATION 09 8/16/78	STATION 10 8/15/78	STATION 11 8/16/78	STATION 12 0/15/78	STATION 13 6/14/78	STATION 14 8/15/78
METCOHOL DGICAL DATA		, 					
AIR TEMPERATLRF (DEG C) CLOUD CCVFK (PERCENT) NINU VELCCITY (MPH) WIND DIRECTION (DEG FM TRUE N. CW)	850 800 900 900 900 900	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	32.0 70.0 0.0	32.0 40.0	31.0 50.0 0.0	29.0 90. 7.5 270	33.0 80. 12.5 220
PARAMETER NAME (UNITS)	STATION 15 8/14/78	STATICN 16 E/14/78	STATION 17 8/14/78	STATION 18 8/16/78	STAT 10N	STATION A0 8/17/78	STATION UO R/17/76
METEORNLEGICAL DATA							
AIR TEMPERATURE (CEG C) (LOUD CCVER (PFRCENT) LIND VELCCITY (MPH) WIND DIRECTION (DEG FM TRUE N. CW)	0 +0 0 E	0 *0 *0 * 1 N&0	0.00	Q +0 +0+ = +0	0.00	0 •0 0	0.000 0.000 0.0000

TARIF R-4h

PARAMETER NAME (UNITS)	STATION STATICN STAT	STATICN B2 8/14/78	STATION FE 8/16/78
AIR TEMPERATURE LOSG CO CLOUD CCVCR (PERCENT) WIND VELCCITY (NPH)	u 0.00 0.00 0.00	0.10 0.00 0.00	M4.0 •00.0
MIND DIRECTION (DEG FF TRUE N. CM) . 220 . 190	220	061	230

TABLE B-5a

-- LAKE SEMINDLE WATER QUALITY MANAGLMENT STUDY *COMPS OF FIMILINERS (CONTRACT DACAGL—TH-C-0101) PHASE 1. CYCLE S
MISCFLLAMENUS DATA

DARAGT - NAME (UNITS)	574T10N 01 0/27/78	STATION 927/79	STATION 33 9/27/78	STAT1711 94 9/27/78	57.77.134 0.5 0.27.779	STATION 05 9/27/78	STATION 27 9/27/18
METTORILGUICAL DATA		• • • • • • • • • • • • • • • • • • •					
ATS TEMPERATURE (DCG C) CLCUN CCVFG (DCFC)NT) NIN VELOCITY (WTH) AIND DIRECTION (DCG FM TRUE N. CA)	0.42 0.001 0.40	28.3 250 363	23.0 193. 5.0	103.	29.0 100. 5.0	00°0 00°0 00°0	0
PARAMETER NAME (UNITS)	STATION 00 7/25/73	STATION 09 9/25/78	STATION 10 9/26/78	STATION 11 9/26/79	STATTON 12 12 9/26/78	STATION 13 9/25/78	STATION 14 9/27/79
METENAL DGICAL DATA							
AIF TEMPERATURE (OFG.C.) CLCLD COVER (URECENT) AING VILOGITY (WEH) AIND DIRECTION (DEC.FM TRUF N. CW.)	O • O · S • O · S • M	0 € 6 € 0 € 6 € 0 € 6 €	20 05 12 50 50	29.0 95.7 7.5	0.047 0.047 0.040 0.040	32.0	26.0 103. 1.00
PARAMETER NAME (UNITS)	STATION 15 9725/79	STATION 16 9/25/78	STATION 17 9/25/78	STATION 19	STATION 19 9/25/79	STATEON A0 9/27/78	\$T&T10# 9/27/78
WETF 343LCGICAL DATA							
AIS TEMPERATURE (DEG C) CLOUD CCVGF (PERCENT) WIND VELUCITY (MPH) AIND DIRECTION (DEG FM TRUE N. CW)	2 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 • 2 • 2 • 1 • 6 0	0.0 .c.	0 • 0 • 60 0 • 6	660 t	0 • c	0 • 0 • 0 0 • 0 0 0 1

TABLE 8-5b

PARAMETER NAME (UNITS)	STATION 81 9/25/78	STATION STATION R2 9/25/78 9/26/78	STATION FE 9/26/78
MSTEMBULCGICAL DATA			••••
AIR TEMPERATURE (DEG C) CLEUN COVER (PLACENT) HIND VELUCITY (MPH)	30°C	30.0 30.0	29.0
MIND DIRECTION (DEG FM TRUE H. CW)	001	09	0;

** LAKE SEMINDLE WATER QUALITY MANAGEMENT STUDY **
CORPS OF FRITHEERS (CONTRACT DAGWOI-78-C-)101) PHASE I. CYCLE 5
MISCELLANTOUS DATA

PARAMETER NAME (UNITS)	STATIUN 01 11/29/78	84762711	STATION 0.3 11/27/78	STATION 04 11/29/78	STATION 05 11/29/74	STATINA 06 11/29/79	STATION 07 11/30/78
WETECROLCGICAL DATA							•
AIR TEMPERATURE (DEG C) CLCLO COVER (PERCIT) **INC VELOCITY (MEH) **INC DIRECTION (ORG FN TRUE N. CM)	.000 .000 .000	225. 000. 0.0.	22.0 100. 0.0	1000	88 80 80 80 80 1	100. 100. 7.5.	0.00
	•						•
PARAMETER NAME (UNITS)	STATION 08	STATION 03 11/29/78	STATION 10 11/24/78	STATION 11 11/29/74	STATION 13 11/28/78	STATION 14 11/30/78	STATION 15 11/28/78
WETE DADLCGICAL DATA							•
FEMPERATURE (DEG C) CCVEO (DERCENT) VELOCITY (MEH)	100.0 7.5	200-0 1000-	101 100 100 100 100 100 100 100 100 100	100.0	2 75 75 6 5	101	0.00
SIND DIRECTION (OLG TH INCH No. CH)	2	0 0		065	0		0.57
PARAWETER NAME (UNITS)	STATION 16 11/28/78	STATION 17 11/29/78	STATION 19 11/30/78	STATION A0 11/29/78	STATION FIO 11/29/78	STATION FE 11/29/78	
WETECHULGGICAL DATA					••••	••••	
AIR TEMPERATURE (DEG C) CLCLD CCVFP (PERCENT) HIND VELDCITY (WEM) NIND DIRECTION (DEG FM TRUE N. CW)	0.00	20.0 100. 5.0	0.00	0.00	0.00	130	

APPENDIX C
IN SITU DATA

LIST OF TABLES

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C-6	In Situ Data, Cycle 6,	C-74

TARIF C-1a

** LAKE SEMINDLE WATER QUALITY MANAGEMENT STUDY **
CORPS OF FIGURERS (CONTRACT DACWOL-78-C-01011 PHASE 1. CYCLE 1
WATER QUALITY SAMPLING RESULTS

PARAMETER NAME (UNITS)	STATION 01 14/17/78	STATION 01 4/17/78	STATION 01 4/17/78	STATION OI A/1779	STATION 01 4/17/78	STATION 01 17/78	STATION 01.01
HYDROLOGICAL DATA							
TOTAL DEPTH (METERS) LUKENT SPEFD (FPS) CURFENT SPEFD (FPS) CUPFENT DIRECTION (DEG FM TRUE N)	å		0-0 n 0 n	6 6 11	611 1	°	
MISCELLANGOUS DATA **********************************	000 000 000	7.72		%00	6.4 1 0.4 1	00	*M #*1 1 *O1 1
FIELD MEASUREMENTS BATER TEMPERATURE (DCG C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C) CATOATICM EEDOCTION POTENTIAL (MV) DISSULVED OAYGEM, ELECTRODE (MG/L) PH (STD UNITS)	60.00	17.0 1.0.1	111 11	19.0 51. 7.30	0.01 0.01 0.01	661 66	

TABLE C-1b

PANAMETIK NAME (UNITS)	STATION 01	STATION 32 4/18/78	STAT104 02 4/19/78	STATION 02 4/18/78	STATION 02 4/19/78	STATION 02 A/18/78	574717ti 02 6/19/78
HYDROLUGICAL DATA					•••		
TOTAL DEPTH (METERS)	211	*!!	0	0.0 0.0 0.0 0.0 0.0	C	· ! !	· ! !
CUFRENT DIRECTION IDEG FM TRUE H) PHYSICAL DATA	1	1	1	9	1	!	1
* MISCELLANIOUS CATA	•				•	•	
* * SECTION LIG (AFPOW R-UK LK UPST) * SAWELE DEPTH (METERS) * SFOCHI DISK TRANSPARINCY (METERS)	6.0	25.		50 10 10 10	1000		.0.1 0.41
CEPTH OF IN SURFACE LIGHT (METERS)	1	;	;	1.2	:	!	¦ •••
FIELD MEASUREMENTS	•			••	••	• •	
MATER TEMPCABLUE (DEG C) SPEC CONDUCTANCE, FLD (UNHO/CM 25C) CAIDATION PEDUCTION POTENTIAL (MY)	18.0	19.0	0.01	111	62.	12.0 .52.	0.50
CISSOLVED DXYGEN. ELECTRODE (MG/L)	7.50	7 . 10	7.10	11	7.35	* * * * * * * * * * * * * * * * * * *	

TABLE C-1c

PARAMETER NAME (UNITS)	STATION 92 4/18/78	STATIUN 02 4/18/78	STATION 03 4/18/78	STATION 03 4/18/78	STAT13N 03 4/18/78	STATION 03 4/18/78	STATION 73
HYDROLOGICAL DATA							
TOTAL DEPTH (METERS) SAVE HEIGHT (METERS) CUFFENT SPEED (FPS)	m	0 m	0	911	0.03	°11	• ! !
CUFFENT DIPECTION (DEG FM TRUE N) PHYSICAL DATA	1	i	!	1	0;		1
MISCELLANGOUS DATA	••		•••		•••	• •	
X-SECTION LOG (NEHOW R-BK LK UPST) (SAMPLE DEPTH (METZRS) (SECCHI DISK TANSPAFENCY (METERS)	75.	20.0	255 0 3 3	4 N 0 • 1		€ 0 I	50.
DEPTH OF 1% SURFACE LIGHT (METERS)		1	1	1	1.2	;	:
FIELD MEASUREMENTS							
WATER TEMPERATURE (DEG C) SMEC CONDUCTANCE, FLD (UMHD/CM 25C) OXICATION NEDUCTION POTENTIAL (MV)	62.5	18.5	9.0	18.5	111	0 • 1	0.10
DISSOLVED DXYGEN. ELECTRODE (MGZL) OPH (STD UNITS)	9.6 7.15	7.13	7.40	0.6	11	4 0	7.00

HWDROLOGICAL DATA	4/18/78 4/19/78	4/18/79	03	00	4/18/78	4/19/79
** TOTAL DEPTH (METERS) 4.0 **MAVE HEIGHT ("FEKS)	\$ 11	0	0	· : : :	0.06	:::
CUFRENT DIRECTION (DEG FM TRUE N)	1	!		!	.121	;
WISCELLANECUS DATA	• • •					
ST)	04.01			0 0 1 0 0 1	010	0001
CEPTH OF 1% SURFACE LIGHT (WETERS)	1	1	1	!	-	!
C) (UMHD/CM 25C)	90.0	0 + 1 0 + 1	10.5	13.5	111	0.00
CISSOLVED GXYGEN. ELECTRODE (MG/L) 8.3 PH (STD UNITS)	0.1.7	E.O.	7.20	1.6.7	11	

TABLE C-1e

PARAMETER NAVE (UNITS)	STATION 04 4/18/78	STATION 04 4/18/78	STATION 04 4/13/78	STATION 04 4/19/78	STATION 05 A/17/8	474102 05 4/17/18	STATION 05 4/17/18
MYDROLUGICAL DATA			• • • •	• • • •	•••		
TOTAL DEPTH (METERS) BAYF HEIGHT (METERS) CURKENT FPLED (FPS)	•	:::	ю I I	o • i i	<u></u>	? !!	20.0
CURRENT DIRECTION (DEG FM TRUE N)	;	!	!	1	1	¦	340
PHYSICAL DATA				••	••		
MISCELLANECUS CATA			••	••	••	••	;
X-FECTION LOC (NFEON R-BK LK UPST) SAMPLE DEPTH (METERS) SECCHI DISK TRANSPARENCY (METERS)	0-1	1 000	 	100	00.00	000 000 000	
DEPTH OF 14 SURFACE LIGHT (METERS)	1	· · ·	¦ 	;	:	;	!
FIELD MEASUREMENTS		•••	••	••	••		
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C) GAICATION REDUCTION POTENTIAL (MV)	70.0	19.0	5.01	18.5	20°C	20.0	111
DISSOLVED DAYGEN, ELECTREDE (MG/L)	7	7.30	9.0	9.0	7.30	7.20	11

PARAMETER NAME (UNITS)	STATION 05 4/17/78	STATION 05 4/17/78	STAT10N 05 4/17/78	STATION 05	STAT [1]N 05 4/17/78	STAT [700 05 4/19/78	STATION 05
HYDHOLOGICAL DATA							†
TOTAL DEPTH (METFOS) BAVE MFIGHT (MFT.ES) CUFMENT SPEED (FPS)	0.0	°11	0 •11 •11	211	; l	¢ 1	9:1
CURRENT DIRECTION (DEG FM TRUE N)	1	· · ·	1			1 1	1 ;
MISCELLANGOUS DATA	•••	•••					
R-SECTION LOC (1FPON R-BK LK UPST) (SAMPLE DEPTH (METERS) (SECCHI DISK THANSDALENCY (METERS)	50°	1.0	5.0	75.0	45.	610 80 90	25.0
DEPTH OF 1% SURFACE LIGHT (WETERS)	;		· · ·			1	1
FIELD MEASUREMENTS	••	••	••	••	· • •	!	:
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C) OXIDATION HIDDUCTION POTENTIAL (MV)	20.0	20.0	10.0	60°5	0.61	17.0	19.0
DISSOLVED UXYGEN. ELECTPODE (MG/L) : PH (STD UNITS)	7.30	0.0	6.8	0.00	C .	C . E	e

TABLE C-19

PARAMETER NAME (UNITS)	STATION 00 00 4 11 11 11 11 11 11 11 11 11 11 11 11 1	STATION 06 4/18/78	STATIO4 06 4/19/78	STATION 05 4/14/79	STATION 06 19/78	STATION 05	STATION 07 4/19/74
HYDROLOGICAL DATA							
TOTAL DEPTH (METERS) *AVE METGHT (METERS) CURRENT SPEED (FPS)	0.00 0.05 0.05	; ; !!	١١٥	3	e	•!¦	211
CURRENT DIRECTION (DEG FM TRUE N)	360	1	1	1	1	1	!
	••						
X-SECTION LOC (AFEDM R-BK LK UPST) : SAMPLE DEPTH (METERS) SICCPI DISK TYANSPAKENCY (METERS)	0.0	0.00 1.00	.0.1 -0.1	50.0	75.		0.0
DEPTH OF 1% SUPFACE LIGHT (METERS)	:	;	1			1	!
FIELD MFASUREMENTS	••				••		
*ATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C) OXICATION PEDUCTION PUTENTIAL (MV)	111	700	70.	70.	69.0	0.01	0.00
CISSOLVED DXYGEN. FLECTRODS (MG/L) PH (STD UNITS)	11	7.10	7.50	8.9	6.8		4.00

TABLE C-1h

PARAMETER NAME (UNITS)	STATION 07 4/19/78	STATION 07 4/19/78	STATION 07 4/13/78	STATION 07 07 4/19/78	07 07 4/10/78	4/10/14	STATION 07 4/13/78
HYNHOLOGICAL DATA							
TOTAL DEPTH (METERS) MAVE HEIGHT (METERS) CURLENT SPECU (FRS)	011	5.0	0.01	5.0	0 11	0	0 11
CURRENT DIRECTION (DEG FM TRUE N)	1	01	· · ·	!	!	;	!
PHYSICAL DATA		••		••	••		
MISCELLANGCUS DATA			••		••		,
K-SECTION LUC (WELCH R-BK LK UPST) SAWELE DEPTH (METERS) SECOMI DISK THANSPAKENCY (METERS)		50.	•m 0001	200	e 0	. F. O. J	¥
DEFTH OF IX SURFACE LIGHT (METERS)	;	1,3	!	¦	1	;	;
FIELD MEASUMEMENTS			••	. •			
WATER TEMPERATURE (DEG C) SPEC CHNDUCTANCE, FLD (UNHD/CM 25C) DAIDATIUN PLOUCTION PUTENTIAL (WV)	18.0 62.	111	0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	19.0 63.	 4.04 0.04 0.0	20.0	71° 5
DISSOLVED DXYGEN, ELECTRODE (MG/L)	9.9	11	7.23	8.8	7.0)	0.01.	00.

TABLE C-11

PARAMETER NAME (UNITS)	STATION 08 4/19/78	STATION 08 4/19/79	STAT10N 04 4/13/78	STATION 00 4/19/73	STATION 09 4/13/78	STATION 09 4/19/78	STATION 00 A/19/78
HYDGGLCAL DATA							•••
TOTAL DEPTH (ACTROS) NAVE HEIGHT (AETERS) CURRENT SPGEO (FPS)	0.03	8:11	2.0	0.15	:::	0	\$!!
CURPENT DIRECTION (DEG FM TFUE N) PMYSICAL DATA	0 N	1	1	1	<u> </u>		¦
MISCELLANZOUS DATA					• • •	• • •	
X-SECTIUM LOC (MFFOW K-AK LK UDST) (SAMELF DEPTH (MFTERS) SECCHE DISK TGANSPARTNOV (METERS)	50.	50.	00-1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00	00-1	& v
DEPTH OF 1% SURFACE LIGHT (METERS)	-	ì	!	:	:	:	;
FIELD MEASUREMENTS			• •				
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (JMHHAZM 25C): OXICATION FLOUCTION POTENTIAL (MV)	111	21.0 6.8.	21.0 6.30	:::	20.0	200.00	70.0 70.0 70.0
CISSOLVED DXYGEN, ELECTRODE (MG/L) ; PM (STD UNITS)	11	8.8 7.30	8.8	11	7.03		2.67

TABLE C-1j

PARAMETER NAME (UNITS)	STATION 10 4/23/78	STATION 4/20/78	STATION 10 4/20/78	STATION 10 4/23/TA	4/20/7A	STATION 4/20/78	<pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre><</pre>
HYDROLGGICAL DATA			1				
TOTAL DEPTH (METEOS) WAVE HIGHT (METEOS) CURAENT SPEED (FPS)	0.00 0.10 0.00	2.6	9 • 1 1 • 1	\$ 811	00.20	611	0
CURPENT DIR CTICN (DEG FM TRUE N)	1	1	1	1	1	1	1
MISCELLANZCUS CATA		• • •				•	• •
X-SECTION LOC (REDOM D-BK LK UPST) SAMELE DEDTH (METERS) SECCHI DISK THANSPARENCY (METERS)	8 I O	000	- 0 - 1	200	0 0	6.0 0.1	0001
DEPTH OF IN SURFACE LIGHT (METERS) PERFECTION (METERS)		!	1	}		1	1
BATER TEMPERATURE (DEG C) SPEC CUNDUCTANCE, FLD (UMHOZCM 25C) CAIDATION REDUCTION POTENTIAL (MV)	111	68.0 58.	53.00	5.00 5.00 5.00	111	19.5 71.0 850	17.54 4.60
DISSOLVED DXYGEN, ELECTRODE (MG/L)	11	8.0	0.4.0	8.0 6.70	11	7.10	7.10

TABLE C-1k

FM TRUE N)			•	#1507.4 •	47.207.7	4/20/78
G FH TRUE N)			1 1 1 1 1 1 1			
G FM TRUE N)		0 1 1	0.02	2 - 1 1	~ -11	<u>:</u> :::
PHYSICAL DATA	• • •	!	!	;	1	;
	• •	••			•	
TISCELLAN GOOD CATA	• •	. • •				
••••		0 - 1 0 - 1	\$ 1.2 V 1.2	.E.	*\$ 0.1 0.01	*F. 1
1		1	> 1.2			i
FIELD MEASUREMENTS	•••	. • •		- • 1		
* WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C): 70. 1 OXIDATION FERUCTION POTENTIAL (MV): 450 :	100.	100.	111	50 0 • 0 1	22.0	1000
7-10	0,9	7.00	11	7.70	S	7.90

TABLE C-11

PARAMETER NAME (UNITS)	STATION 12 4/20/78	STATION 13 4/20/78	STATION 13 4/20/78	STATION 13 4/23/78	57AT13N 13 A/20/78	51410! 14 4/20/74	STATION 13 4720778
MYDEOLOGICAL DATA			1				
TOTAL DEPTH (METERS) MAVE HEIGHT (METERS) CURRENT SPETO (FPS)	:	0 0 0 0 0 0	10 4 1 1 10 1 1	£ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	្ត * ! ! នា ! !	911	0 F
CURRENT DIFICTION (DEG FM TRUE N)	1	1	1	l	1		;
MISCELLANCTUS DATA	• • '					••	••
K-SECTION LOG (KEROM K-OK LK UPST) SAMELE OSDIH (METERS) SECCHI DISK TRANSPARTHOY (METERS)	06.0	90.0	.c.	.0 		900	30°
DEPTH OF 1% SUMPACE LIGHT (METERS)	;	2.3	<u> </u>	1	}	;	
FISED MEASUREMENTS	••					•	
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UNHOVEM 25C) ORIGATION FRONCTION POTENTIAL (MV)	100.	111	21.0 95.0	6 • 10 • 0 • 0 • 0	20°5	100.5	145.
DISSOLVED DXYGEN. FLECTRODE (MG/L)	8.5	11	7.50	7.40	7.7	7 7 7 9	7.70

TABLE C-1m

PARAMETER NAME (UNITS)	STATION 14/23/78	STATION 14 4/20/78	STATION 14 4/20/78	STATION 14 4/20/78	STATION 14 4/20/78	STATION 14 4/20/78	STATEON 15 472178
HYDPOLOGICAL DATA							
TOTAL DEPTH (METERS) WAVE HEIGHT (42TERS) CURRENT SPEED (FPS)	0 m 0 c	в: Н 1	o : ! !	°;;;	0 m	0 • m	0 4
CURRENT DIRECTION (DEG FM TRUE N)	1	;	1	1	1		!
PHYSICAL DATA	•	•				••	
MISCELLANEDUS DATA		••			••	••	
X-SECTION LOC (XFROM R-RK LK UPST) SAMFLE DEPTH (METERS) SECCHI DISK TAANSPAPENCY (METERS)	0.0	 	200	200	75. 0 3	2.0	88 0 · 9
DEPTH OF 1% SUPFACE LIGHT (METERS)	2.0		1	;		1	;
FIELD MEASUREMENTS	••	••	••	••	••	••	
MATER TEMPEDATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C) CRIDATION REDUCTION PUTENTIAL (MV)	111	20.5	29.5	20.5	145.	20.0	2 t = 0
DISSOLVED DAYGEN, ELECTRODE (MG/L) : PH (ST) UNITS)	11	7.6	7.6	7.4	7.76	7.10	7 . 4 . 30

TARIF C-1n

PARAMETER NAME (UNITS)	STATION 15 4/21/78	STATION 15 4/21/78	STATION S 15 4/21/78	STATION 15 178	STATION 15 4/21/78	STATION 15 4/21/78	STATION 15 4/21/78
HYD-OL DGICAL DATA							
101AL DEPTH (METERS) 4AVE HEIGHT (METERS) CUERENT SUFED (FPS)	; ; ;	0 0 0 0	0.11	0111	0.11	řII	D 1 1
CURRENT DIRECTION (DEG FM TRUE N) PHYSICAL DATA		1	!	1	1	1	!
MISCELLANEOUS DATA H-MEGTION LOC (MERGY N-08 LX UPST)	35.	30.	.00	20.	20.	63.	
SAMELE DEDTH (METERS) SECCHI DISK THANSPARENCY (MFTERS)	0.1	10	F	<u>-</u> }	0	n	o
DEPTH OF IN SUPFACE LIGHT (METERS)	¦ 	1.5	!	1	1	:	;
FIELD MFASUREMENTS	• •	••	• •	• •	• •	••	• •
BATER TEMBEGATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C) CRIDATION REDUCTION POTENTIAL (PV)	240	111	21.0	21.0	21.5	21.0	20. 95.4 40.
DISSOLVED OXYGEN, FLECTRODE (M3/L) PM (STD UNITS)	7.2	11	7.3	7.1	7.50	7.3	7.10

TABLE C-10

PARAMETER NAVE (UNITS)	STATION 16 4/21/78	STATION 16 4/21/78	STATION 16 4/21/79	STATION 16 4/21/78	STATION 15 4/21/78	STATION 15 15 15 15 15 15 15 15 15 15 15 15 15	STATION 15 4/21/78
HYPROLOGICAL DATA							
TOTAL DEPTH (METERS) AAVE MEIGHT (METERS) CURRENT SPEED (FPS)	ν. •	0:11	0.020	211		0	***
CUFRENT DIRECTION (DFG FM TFUE N) PHYSICAL DATA	}	1	100	!	1	1	;
MISCELLANFOLS CATA				• • •	• • •		
K-SECTION LOC (KERON H-BK LK UPST) SAMELE DERTH (METERS) SECCHI DISK TKANSPARENCY (METERS)	050	0.41	55.	50.1	50.	0.01	
DEPTH OF 1% SUVFACE LIGHT (METERS)	1	1	2.1	\ 	¦	!	!
FIELD READONEMENTS WATER TEMPLENTURE (DEG C) SPEC CONDUCTANCE, FLD (UMHOZGM 25C) CXICATION FEDUCTION POTENTIAL (MV)	20 -00 -00 -1	20.5	111	20.5	000 +	00 00 00 00 00 00	0. 0. 0. 1.
DISSOLVED DAYGEN. FLECTRODE (MGZL) PH (STD UNITS)	7.50	7.5	11	7.5	7.4	000	1.20

DESAMETER NAME (UNITS)	STATION 16	STATION 17 17 173	STATION 178	STATION 17 4/21/78	STATION 17 4/21/79	STATION 17 4/21/78	STATION 17 4/21/78
HWDROLDGICAL DATA						••••	
TOTAL DEPTH (METERS) MANS HEIGHT (METERS) CURRENT SPEED (FDS)	°:::	o	°11	0 2.32 5.52	<u>;;;</u>	?!!	• 111
CURRENT DIRECTION (DEG FM TRUE N)	1	1	}	0 4 -	;	¦ 	\
PHYSICAL DATA					••	••	- • •
MINICELLANDOUG DATA **SECTION LOC (*FROM R-BK LK UPST) **SECTION LOC (*FROM R-BK LK UPST) **SECTION LOS (*FROM BNC) **SECTION	9 m l	0.01	001	200	0001	200-1	001 041
ODPIN OF IX SUFFACE LIGHT (METERS)	1	1	¦	6-1		1	¦ •••
FIELD MEASUREMENTS ***********************************	20.5	200 100 100 100 100	200 100 100 100 100 100 100 100 100 100	111	20.0	20.0	20.0
CISSOLVED DAYSEN. ELECTRUDE (MG/L)	7.6	7.20	7.7	11	7.30	7.7	7.7

TABLE C-19

PARAMETER NAME (UNITS)	STATION 17 4/21/78	STATION 17 4/21/78	STATION 18 10/78	STATION 18 4/19/78	STATION 18	STATION 18	STATION 14 4/19/78
HYDROLUGICAL DATA							
TOTAL DEPTH (METERS) NAVE MEIGHT (METERS) CURRENT SPEED (FPS)	°!!	311	211	:!!	0.20	211	0:11
CURPENT DIRECTION (DEG FM TPUE N)		1	1	1	50	}	1
PHYSICAL DATA					•••		
MISCELLANEGUS DATA					•		
X-SECTION LOC (REROW R-BK LK UPST) SAMPLE DEPTH (METERS) SECCHI DISK TRANSPARFHCY (METERS)	0001	°°;	800 I	5.0	01.0	80 0 1	
DEPTH OF 1% SURFACE LIGHT (METERS)	1	}	1	1	77	;	1
FIELD MEASUREMENTS			•				
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMMO/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	20.0	20.0	21.0 05.0	21.0	111	21.0.	21.5
EISSOLVED OXYGEN. FLECTRODE (MG/L) PH (STD UNITS)	7.20	7.A	7.50	7.30	11	7.50	7.40

TABLE C-1r

	STATION 18 4/19/78	STATION 19 4/19/78	STATION 18 4/19/79	5TATION 19 4/19/78	10 10 10 10 10 10 10 10 10 10 10 10 10 1	STATION 10 4/19/78	STATION 19 4/17/18
HYDRULDGICAL DATA		-					
* TOTAL DEPTH (METERS) **AVE HEIGHT (METERS) **CURRENT SPIND (FPS)	0.11	211	;;;;	0	\$; []	0 . E . D	e
CUREENT DIFECTION (DEG FM TGUE N) PHYSICAL DATA				1	1	6	1
* MISCELLANECUS DATA	•						•••
X-SECTION LOC (MERCH R-HK LK UNST) SAVELT DEPTH (MERCHS) SECCHI DISK THANSPARENCY (METERS)	80 1	. E	.0	€ 8.01	**************************************	0 0 • 1.0 ©	₩ 0001
DEPTH OF IX SURFACE LIGHT INETERS)			1		1	1.2	1
FIELD MEASUREMENTS		- •		••	•••		
* WATER TEMPERATURE (DEG C) * SPEC COMDUCTANCE* FLD (UMMO/CM 25C) * OXIDATION SEDUCTION POTENTIAL (MV)	306	21.0	21.0	110.	23.0	111	1000
DISSOLVED DXYGEN. ELECTRODE (MG/L) FM (STD UNITS)	7.40	7.30	7.30	8 · 8 · 8 · 8 · 8 · 8 · 8 · 8 · 8 · 8 ·	0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 ·	11	£0

TARIF C-1s

PARAMETER NAME (UNITS)	STATION 19 4/19/74	STATION 19 4/19/78	STAT10H	STATION 19 4/19/78	STATION A0 A/17/78	STATIOL A0 A/17/78	STATION 80 8/17/78
HYDROLNGICAL DATA						•••	
TOTAL DEPTH (METERS) CURKENT SPLED (FPS)	•	6		m 1	0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 ·	111	0.00
CUBAENT DIRECTION (DEG FM TRUE N)	}	;	; 	1	23	!	350
PHYSICAL DATA				••	••	• •	
MISCELLANEDLS DATA	•						
X-SECTION LDC (XFROM R-BK LK UPST) : SAWDLE DENTH (WETEKS) SECCHI DISK TRANSPARENCY (METERS) :	100-	7.0	06.0	.00	111	0 1 - 1	0
DEPTH OF 1% SURFACE LIGHT (WETERS)	!	1	¦	1	!	\ \ •••	!
FIELD MEASUREMENTS					•••		
NATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C) CAIDATION KEUNCTION POTENTIAL (MV)	21.5	108.	21.5	21.4	111	0.50 0.30	111
DISSOLVED DXYGEN, ELECTADOS (MG/L) ; PM (STD UNITS)	A. B.	7.20	9.0	7.30	11	6.0	11

PARAMETER NAME (UNITS)	STATION B0 4/17/19
HYDROLOCICAL DATA	
TOTAL DEPTH (MITERS) BAVE HEIGHT (MITERS) CURRENT SPEED (FPS)	•!!
CURRENT DIRECTION (DEG FM TRUE N) PHYSICAL DATA	1
MISCELLANZOUS CATA	
X-SECTION LOC (METRON P-BK LK UPST) SAWKLE DEPTH (METERS) SECCHI DISK TPANSPAFENCY (METERS)	
DEPTH OF 1% SURFACE LIGHT (METERS)	1
FIELD MEASUREMENTS	
MATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	19.0
CISSOLVED OXYGEN. ELECTRODE (MG/L)	7.50

TABLE C-2a

** LAKE SEMINDLE WATER QUALITY MANAGEMENT STUDY **
CORPS OF ENGINZERS (CONTRACT DACWOI-79-C-0101) PHASE I, CYCLE 2
WATEH QUALITY SAMPLING RESULTS

DARAMETER NAME (UNITS)	STATION 01 6/7778	STATION 01 6/ 7/78	STATION 02 67 7/78	STATION 02 6/7/78	STATION 03 67 7778	STATION 03 6/7/78	STATION 04 6/ 7/18
HYDEOLOGICAL DATA							
TOTAL DEPTH (WETERS) AAVE H. IGHT (WETERS) CUPRENT SPITE (FPS)	0 .0 0 .0 0 .0 0 .0	S	000 •c• •o	0	0 2 2 3 3 3 3 3 3 3	r	0.0 0.0 0.0
CURRENT DIRECTION (DEG FM TRUE N) PHYSICAL DATA	025		30	}	53	1	320
MISCELLANERUS CATA		••					
X+SECTION LOG (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS) SECCHE DISK THANSPAKINCY (METERS)	0 0	200		200	500		900
DEPTH OF 1% SURFACE LIGHT (METEPS)	9-1	}	6.0		0.8	1	0.0
FISED MEASUREMENTS							
WATER TEMPERATURE (DEG C) SPFC CONDUCTANCE, FLD (UMHD/CM 25C) CAILATION KEDUCTION POTENTIAL (MV)	111	2.00	111	0.09	:::	0.00	111
DISSALVED DXYGEN, ELECTRODE (MGZL)	11	7.3	1;	6.0	11	6. 4 90	! }

DARAMETER NAME (UNITS)	51AT10N 04 67 77 8	STATION 05 67 7778	STAT10H 05 6/ 7/78	STATION 05 6/ 7/79	STATIUN 06 6/ 7/78	STATION 07 6/ 6/78	STATION 07 6/ 6/78
HYDEDLOGICAL DATA							••••
TOTAL DEPTH (METLAS) CJERLIT SPET (MITERS)	0	0 m m	0	0000	· ! !	000 6.0	• • • • • • • • • • • • • • • • • • • •
CURGENT DIFECTION (DEG FM TRUE N) PHYSICAL DATA	1	0 • 0	1	360	!	2	!
MISCELLANEOUS DATA			• •			••	• •
X-SECTION LOC (XFROM P-BK LK UPST) SAMPLE DEPTH (MTTERS) SECCHI DISK TRANSMAPCNOY (METERS)	1.0	50.	.00	310	100	010	20-1
DEPTH OF IX SURFACE LIGHT (METERS)		9.0	!	0.3	:	9*0	:
FIELD MEASUPEMENTS		• •	••			. •	
AATEM TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMMO/CM 25C): CAIEATIEN REDUCTION POTENTIAL (MV)	24.0	111	24.0	:::	0 • 1 • 10 1 N	}	554 570 100 100 100 100 100 100 100 100 100 1
DISSOLVED OXYGEN, ELECTADDE (MG/L)	7.56	11	8.99	11	6.90	}	7.5

TARIE C.2C

PARAMETER NAME (UNITS)	STATION 07 67 6778	STATION 07 6/ 6/78	STATION 07 6/ 6/78	STATION 09 67 6778	STATION 09 6/ 6/78	STATION 08 6/ 6/78	STATION 00 6/6/78
HYDPOLOGICAL DATA		* * * * * * * * * * * * * * * * * * *		f 6 6 6 6 8 8		1	
TOTAL DEPTH (WETERS) BAVE HEIGHT (WETERS) CUMMENT SPEED (FPS)	0	0 • 1 †	0	6.0 0.0 10.0	0	o.	9000
CUREENT DIRECTION (DEG FM TRUE N) PHYSICAL DATA	1	ł	}	69	1	;	1
MISCELLANGUE DATA	••		••		••		
X-SECTION LOG (METON R-BK LK UPST) SAMELF DEPTH (METSKS) SLOCHI DISK TRANSPALENCY (METERS)	001	5.0	7.00	50.	.0.1	200	& 1.0
GEPTH OF IX SURFACE LIGHT (METERS)	;	;		0.7	!	1	
FIELD MEASUREMENTS			•				
WATER TEMPERATURE (DEG C) SPEC CORUNCTANCE, FLD (UMMIZEM 25C) LAIDATION FEDUCTION POTENTIAL (MV)	25.0 70.	2.4 7.0 4.0 4.0 4.0	74 70 0	111	25.0 71.	25.0 71.0	111
DISSOLVED DXYGEN. SLECTEDSE (MGZL)	7.2	7.1	7.00	1 1	7.1	00,7	11

TABLE C-2d

DARAMET'H NAME (UNITS)	STATION 04 07 578	STATION 09 67 6/76	STATION 07 6/ 6/73	STAT1 UN 60 67 78	STATION 03 5/ 6/78	STATION 10 6/6/79	STATION 10 6/ 6/78
HYPKOLOGICAL DATA				• • • •			
TITAL OFFITH (MCTERS) MAN, HCIGHT (MCTERS) COCHENT SPEED (FPS)	3 c	0	0	0	0	0.00	0 % ! !
CUBEENT DIRECTION (DEG FM TEUE N) PHYSICAL DATA		1	¦	1	1	1	
	80-	.0 .0 .1	8m 1	0.4.1 0.1	10.70 I	010	• F • O • O • O • O • O • O • O • O • O
DEPTH OF 1% SUPFACE LIGHT (METERS)	1	!	1	;	1		!
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHOZCH 25C) GAIDATION REDUCTION POTENTIAL (MV)	26.0	25.0 87.	25.0 87.	25.0 89.	25.0 90. 450	111	26.0 35.0
DISSOLVED DXVGEN, ELECTRODE (MGZL) PM (STD UNITS)	7.30	7.10	7.10	7.10	7.10	1	7.7

TABLE C-2e

PARAMETER NAME (UNITS)	STATION 10 6/ 6/78	STATION 11 6/ 6/78	STAT10N 11 6/ 6/78	STATIUN 11 0/ 6/78	STATION 11 0/ 6/78	STATION 11 6/ 5/78	STATION 11 6/6/78
HYDHALUGICAL DATA			• • • • • • • • • • • • • • • • • • •				
TOTAL DEPTH (METERS) MAYE HEIGHT (METERS) CHEGENT SPIEG (FPS)	0	000	0 : : :	911	0 :	0 11	*!!
CURRENT DIR-CTION (DEG FM TRUE N) PHYSICAL DATA		1	¦	1	!	1	;
MISCELLANEGUS DATA							
K-SECTION LNC (KEKOM P-OK LK UPST) SARPLE DEPTH (METERS) SECCHI DISK THANSPARENCY (METERS)	0.01	90.		20 20 10 10	00 H	& 4 0 •	ev.
DEPTH OF IX SURFACE LIGHT (METERS)		2.3	1	1	1	1	1
FIZLD MEASUREMENTS	• •	•					
MATER TEMPCRATURE (DEG C) SPEC CUNDUCTANCE, FLD (U4HD/CM 25C) OAIDATION PEDUCTION POTENTIAL (MV)	26.0 85.	111	25.0 128.	25.0 113.	N N 4 0 • 0 • 0	25.4 0.04 0.04	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
DISSOLVED DXYG:N, FLECTRODE (MGZL) FH (STD UNITS)	7.50	11	7.00	7.50	7.20	401.7	5.6

PANAMETER NAME (UNITS)	STATION 12 6/779	STATION 12 6/ 7/79	STATION S 13 6/5/78	97AT10N 13 6/ 5/78	STATION 13 6/5/78	STATION 6/5/74	STATION 13
HYDPOLUGICAL DATA				•••			• • • •
TOTAL DEPTH (METERS) WAVE HIGHT (MITERS) CURGINT SPEED (FPS)	200	2	0 0 0 0 0 0 0	0 11	, i	0 0	9 1
CURRENT DIRECTION (DEG FM TRUE N)	1	· • •	1	1	1	!	1
PHYSICAL DATA	• •	•		• •	•••		••
MISCELLANCUS DATA		•			•		••
X-SECTION LOC (KERCM P-NK LK UPST) CAMBLE (SUTH (MITERS) SECCHI DISK TPANSPAKENCY (METERS)		.c	e i i	.00	000	200	•0 • 1 mm 1
DEPTH OF 1% SURFACE LIGHT (METERS)	2-1	1	0°E	;	1	1	:
FIELD MEASUREMENTS		•••		••	•		••
SATES TEMPERATURE (DEG. C) SAEC CONDUCTANCE: FLD (UMHOZOM 25C) GRIEATION F.ZOUCTION POTENTIAL (MV)	111	0001	:::	147.	23.0 14.0 340	27.0 147. 170	27.0 14.0 14.0
DIESOLVED OXYGEN. ELECTRODE (MGZL) FM (STO UNITS)	11	9.2	11	7.0	000°E	7.7	7.00

TABLE C-2q

PARAMETER NAME (UNITS)	STATION 13 6/ 5/78	STATION 14 6/ 5/78	STATION 14 6/5/78	STATION 15 15 15 18	STATION 15 6/ 3/78	STATION 15 6/ 5/74	STATION 15 6/ 5/78
HYDFOLGGICAL DATA					• • • •		
TOTAL DEPTH (METERS)	0.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 m:	0.00	0 - 1	0.01	::1
CUBHENT DIFFCTION (DEG FM TRUE N)		; ;	 	} }		1	1
ITA	• •		••		• • •	• • •	
MISCELLANTOUS CATA	•		• • •				
X-SECTION LOC (XFEOW R-OK LK UPST) SAWPLE DEPTH (MITCHS) SICCHI DISK TRANSPAKENCY (METERS)	0.41	50.	20-1	8 1 0 8 1 0		52.	.0 0 0 1
LIPTH OF 1% SURFACE LIGHT (METEPS)	1	3.0	¦	2.1	:	!	;
FIELD MEASUREMENTS							٠.
NATOR TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLO (UNHO/CM 25C) OKIDATIEN ESOUCTIEN POFENTIAL (MV)	26.0 150.	111	195.	111	135.		24.0 140. 410
CISSOLVED OXYGEN: ELECTHODE (MGZL) PH (STD UNITS)	6.2	11	9.6	;;	4.	400	7.40

TARIE C-2h

PARAMETER NAME (UNITS)	STATION 15 6/ 5/78	STATION 15 67 5/78	STATION 15 15 16 17 18	STATION 16 6/ 5/78	STATION 15 6/5/78	STAT [OH 17 6 5 7 H	67 5 78 67 8 67 5 78
HVCKOLOGICAL DATA							
TOTAL DEPTH (METERS) WANE HIGHT (METERS) COFFENT SPEED (FPS)	0.01	0 - 0 - 0 - 1 - 1	0 - 1	00.0	211	0-0	0
CURLENT DIPECTION (DEG FM TFUE N) PHYSICAL DATA	1	;	1	001	1	0	;
MISCELLANGOUS CATA	. •	•		•			• •
* X-SECTION LOG (VERON R-PK LK UPST) SAMELE DEDTH (METERS) SECCHI DISK THANSPARRICY (METERS)	0.00 0.01	7.00	99.1 99.1	50.		20.	.0.1
CEPTH OF 1% SUFFACE LIGHT (METERS)	:	;	;	2.5	¦	e	
FIELD MEASUREMENTS	•••			•			_
• BATLE TEMPERATURE (DEG C) • SPEC CONDUCTANCE, FLD (UMHO/CM 25C) • CAIDATION PEDUCTION POTENTIAL (MV)	26.0	26.0 135.	25.0 135.	111	130.		75.0
· CISSULVED DXYGIN, ELECTRODE (MGZL) · PH (STO UNITS)	7.20	F . 0 . 7	7.10 4.01.4		7.30	11	7.30
							•

TABLE C-2i

PARAMITER NAME (UNITS)	STATION 18 10 5/78	STATION 18 6/ 6/78	STATION 17 6/ 6/78	57AT10N 19 6/ 6/78	STATION A3 6/7/19	20144S A00 A774 A0	STATION 80 7778
HYD-40LUGICAL DATA						• • • •	
TOTAL DEPTH (4ETERS) WAVE HIGHT (MITERS) CURKENT SPECO (FPS)	8 -0 · 0	O + I † In I †	0.00	8.0	0 4 5	•11	0-0-1
CURRENT DIRECTION (DEG FM TRUE N)	50	;	34.0	; 	50	!	000
PHYSICAL DATA			••	••	• •		• • •
MISCELLANZOUS CATA			••	••	. •		
X-SECTION LOS (MENCW R-BK LK UDST) SAFELE DEPTH (METERS) SECCHI DISK TRANSPARBNOY (METERS)	010	20.1	0110	100	011	00	
DEPTH OF IX SURFACE LIGHT (METERS)	2.0	;	•:-	1	1	!	• • •
FIELD MEASUREMENTS		••	••	••	• •	• •	
WATER TEMPERATURE (DEG C) 523C CONDUCTANCE, FLD (UMHDZCM 25C) 0XIDATION FLOUCTION PUTENTIAL (MV)	111	130.	!!!	121.	:::	 4.€ •0.0! •0.0!	111
FISTOLVED DAYGEN. ELECTRODE (MGZL) PH (STD UNITS)	11	7.3	!;	7.40	11	7.7.	¦

PAHAMETER NAME (UNITS)	STATION B0 b/ 7/78	STATION H1 6/ 5/78	STATION R2 6/ 6/79	STAT1 JN FF. 6/ 5/78	51AT10N FE 6/ 6/78
HYDHOLUGICAL DATA					
TOTAL DEPTH (METERS) MAV. HFIGHT (METERS) CURRENT SPEED (FPS)	w	0.00	0000	0000	0 :::
CUEBENT DIRECTION (DEG FM TRUE N) PHYSICAL DATA	1	1	1	1	!
MISCELLANGOLS DATA **SECTION LUC (REFERS) SAMELE DEPTH (METERS) S.CCMI DISK TEANSPAFENCY (METERS)	2 N N N N N N N N N N N N N N N N N N N	111	111	- 1 1 2 2 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1	
DEPTH OF IX SUMFACE LIGHT (METERS) FITLD MEASUMEMENTS	[1		1
WATER TEMPERATURE (DEG C) SPEC GENDUCTANCE, FLD (UNHOZEM 25C) GAREATEN REDUCTION POTENTIAL (MV) DI SEDLED OXYGEN, ELECTRODE (NGZL) PA (STD UNITS)	24.0 78. 160 7.00	!!! !!	111 11		27. 27. 27. 20. 20.

** LAKE SEMINDLE WATER QUALITY MANAGEMENT STUCY **
CURDS OF PUBLICES (CONTEACT DACWOL-79-C-0101) PHASE 1. CYCLE 3
WATER GOALITY SAMPLING RESULTS

MADAWATER NAME (UNITS)	STATION 01 7/19/78	3747174 01 7/10/78	STATION 02 7/1:/73	: STATION 02 171779	STATTON 03 7/10/78	574104 03 771978	STATION 04 7/19/78
HYDACICSICAL DATA		1	1				
TITAL DEPTH (HSTEES) NAV. MTGMT (NSTEES) CUFSNT SOCIO (FDS)	0 • 0 10 • 0 10 • 3	; ;;	0.0 10.0 1.1	#11	0 N N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	:11	
CUERENT DIE CTIEN (NEG EN TRUC N) -	330		Of	!	50	1	320
MISCELLANTOUS CATA	••	••		••		•••	
X SECTION LIG (KIRCH E-IN LK UNST) SAMEL: DEPTH (VIT.63) SECCHI DISK T-AFFDANCHOY (MITEDS)	30°3°	50.	. 0 0 1 0	50.	0 0 • 10 • 10	50.	, no
PERTH OF 1% SORFACE LIGHT (METERS)	2.1		2.6	1	2.3	;	:
FIRED MASSURPHIS		••		. •		•••	
MATER TEMPERATURE (016.0) SOC CONDUCTABLE FED (UMHOZEM 250) OMIDATION FOUCTION DITENTIAL (MV)	111	23.0	111	N N N N N N N N N N N N N N N N N N N	111	0°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	111
LISCALVED FIXYSEN, TLECTRIDE (MUZL) PH (STD UNITS)	[]	6. V 6. W 10. U	!!	7.0			11
	•	•		•		•	

PARAMET, UNITS)	STATION 04 7/1979	STATION 05 7/19/78	STATION 0.5 7/19/79	STATTUN 90, 7720778	STATIO:	51ATENU 01 7/20/78	0.T17119N
HYDEREGETAL DATA							
- 1914_ OEPTH (WITING) - 447 HG (677 (WITING) - 605-191 SP (10 (100))	911	0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 ·	• 1 1 £ 1 1	0.00 0.01 0.0	e •11 971	0.00	• 11
CURRENT DIF/CTICN (P.G FW TRUE N) PHYCICAL DATA	!	046	1	000	1	0	
* MISCELLAN-CUS CATA * X-EFCTIFN LPG (XF-CM P-RK LK UPST) *	o r	. 05		50.	0,	30.	0,
SAMELS DEPTH (MOTHER) SECOND DISK TEANSMAN (MOTHERS) CEPTH OF 18 SURFACE LIGHT (METERS)	<u>-</u>	10 -	<u>-</u>	3.5	-1 1	100-	0-1 1
FIFTH TOWN TAYOR (100 COMMON SECTION COMMON	29 7 • 5 7 • 5	11	23.5		24.0	11	ν. Φ.Ε.
DISSULVED CYYG N. ELECTFODE (MGZL) . FM (STO UNITS)	7.7	1 11	7		2001.7	1	7.2

TABLE C-3c

HYDE N. DGICAL DATA	7/20/73	314710N 07 7/23/78	STATION 07 7/20/73	STATION 09 7/19/79	CTATION 09 7/18/79	57.4T [ON OR OF 17.4	00 7/14/78
•	1				 		
TOTAL DEPTH (NETSOS) AAVE H TOFT (NYTEPS) CUERCUT SPEED (FPS)	0:11	211	211	00°	e	011	0 0 0 0 0 0
CURRENT DISCETTON (DEG FM TRUE N) PHYSICAL DATA	1	1	¦	220	;	;	;
MISCLETAN CUS DATA	••						
** * SECTION LOG (*FORM PHMK LK UNST) * SAMFLE BEPTH (*STOR) * SECCHI DISK TOANSPARINGY (METTHS) *	001	889 899	*C	615	. C	.0 0.1 0.1	50.
GERTH OF 1% SUPFACE LIGHT (MEYERS)	-	1	;	9.	;	1	1.1
FISED ANA SURFACINTS	••	•			••		
* MATTO TEMPLANTURE (D.G. C.) ** FORC CONDUTTAILS FLD (UMMAZEM 25C.)** ** CALLATION **, DUCTION BOTONIAL (MV)	29.0 93.	20.4 2.4 2.4	2.00 0.00		(• 0) · • • • • • • • • • • • • • • • • • •	0.00	:::
DISCOLVED WAYG.N. FLECTHONE (MG/L) : FH (STD UNITS)	7.20	7.20	5.3	11	7.50	7.20	;;

DARANTER NAME (UNITS)	STATILN 00 7/14/73	STAT1 121 03 7/14/79	STAT104 09 7/14/78	5TATTON 07 77.1978	STAT! 14 10 1774	5141101 10 1/18/14	574713N 10 1774177
HYD-OLGGICAL DATA							<u>-</u> .
1974, nepth (487545) 64V Holder (1975-5) Cyprest 60,50 (698)	v	0	0	0 1 1	0000	0	0
CURSENT DIN ICTION (RSG EN TOUR N) PHYSICAL DATA	¦	1	;	1		!	;
MISCELLAN, CUS FATA							
K-SECTION LOC (KEN'N K-MK LK UBSY) SAWLE DEDTH (M.T.CO) CLOCHI DISK TIANSVAF,NOY (MOTERS)	80°-	\$.	*0 0 * 1 6 m 1	⊕ • • • • • • • • • • • • • • • • • • •	\$ 1 c	0-1	6 - 1 • 5 - 1
CEPTH OF IN SURFACE LIGHT (WOTTHS)	1		. 1		T.	1	
VIELD M.A.OVONOTIS WATER PRESCRIPTE FLD (UMHDZCM 2KG) FAIDATION CODUCTICE PATENTIAL (MV)	31.0 0.00 0.14	200.0	2.C. 4 0.00	88.0 66.0	111	0.00 0.00 0.10 0.10	0 +C +T () U () 4 ()
DISSOLVED UXYNAN, FLECTRODE (MGZL) -	7.40	7-60	non.	5.9	11	4.00	4.5.

TABLE C-30

PAPAMETTH NANT (UNITS)	STATION 1	NI TATS 11 87/81/7	STATION 11 1713/78	STATION 11 7/14/79	STATION 11 7/18/73	STATION 111 71 11 11 11 11 11 11 11 11 11 11 11	STATION 12 7/17/19
MTG: JL,GEC/L DATA	~ • • •		; 1 1 1 1 1 1 1 1		1		
TITAL DEPTH (ASTRAC) ANY HIGHT (ASTRAC) CONSENT SP (O (FE))	9.00 0.00	œ!	: :::	::1	0 •11 •11	0 •!!	0000
CUFFERT DIFECTION (DEG FM TRUF N) PMYSICAL DATA	!	1		!	1	1	1
MISCELLAN, OUS DATA	•••				• • •		
KHETOTION LOC (KERCY SHEK LK UBST) SAMPLY DEDTH (VET EQ) SECHI PISK TYANGAREROY (METERS)	90.1	0-1	.001	68.	4 4 1 0 • 1	€ 0 K I	53.
CORTH OF 1% SUFFACE LIGHT (METERS) - FALLD MEMORIAMITS	0 %	;	;	!	!		× (•2
MATER TEUR MATURE (D.G.C) SPEC CORDUCTANCE, R.D. (UNHOZEM DEC) CRIDATION FEDUCTION POTENTIAL (MV)	111	30.0 125. 353	129.0	29.0 113.	28.5 102.	102.	111
SISSOLVED DXYGGN, GLECTRODG (MGZL) FH (STD UNITS)	11	8.5 6.30	0	5.0 7.80	4 I	₩•₩ •	11

TABLE C-3f

PAPA ACTTE NAME (UNITS)	STATION 12 7/19/78	5747174 13 7/17/78	57.47.1011 1.3 7/1774	STATION 11 7/17/78	5*A*134 13 7/17/73	\$TATION 11 7/17/78	5747101
HYD JUDGICAL DATA	1					••••	••••
(2011 N) H103C 1811 (A) 1816 (A) 1817 (A) 1818 (1.5	0.01	0	911	·!!	C .!!	·
CURRENT DISECTION (DGG EM THUE N) PHYSICAL DATA	!	1	1	1	!	!	!
MINCHIA4 105 FAIR X-ECTION 105 (AFGOV 1-9K LW UPST) ZAMONE DESTM FLANKARANY (MATRES)	000	30.	*0° -1	30.	20°0 0.0	*0 C *1 E *1	.0.5 1.0.0
CLOTH DE 14 SUFFACI LIGHT (M.TEPS)	;	0	!	1	¦ 	!	!
AATSETTER DATUE (DOS C) DOS CONTRACTED CONTRACTED CONTRACTED CONTRACTED CONTRACTED (MV)	95.0	111	31.0 150.	159.	150.3	0 • 1 C:0 1	0 * 6 ° 6 ° 6 ° 6 ° 6 ° 6 ° 6 ° 6 ° 6 ° 6
ELSSOLVED CKYGEN, ELECTRODE (MGZL) FM (STD UNITS)	7.90	!!	£ 6.	m./	9.40	 	00.1

TARIF C-30

	57.271.0N 14 7/19/78	STATEON 14 7/19/79	STAT ()N 15 17 17778	STATION 15 17/178	5747 1014 15 7/17/78	5747101 15 771778	51ATION 15 7/17/18
HYDEOLOGICAL DATA							
TOTAL DEPTH [WITCHS] MANE HTIGHT (M.TENS) CUNEINT SP. 0 (FPS)	2.0 0.0 0.0	ις • •	 	611	811	e	0
CURCENT DISCOTION IDEG FM TRUE N) PHYSICAL DATA		1	1			1	;
MISCELLAN-TUS CATA	• •				••	••	••
X-SECTION LOC (MERCH F-BK LK UPST) : SAMPLE DESTH (WITHER) . JCCHI DISK T-INSPACINCY (METERS)	50.0	1.0	6.1.	. 20°	300	6 - 1 0 - 1	50. 7.0
DIPTH OF 1% SURFACE LIGHT (WETFAS)). •	;	n•n	1			1
FILLD MCALURCHIS	•				•	•	•
MATER TEMPERATURE (LTG C) SATE CONDUCTANCE, FLD (UMH)ZCM 25C) CATERTICN PEDUCTION PUTLINITAL (MV)	111	2005	111	31.0 153.	1000 1000 1000	29.9 150.	24.0 155.0
ELECTIONED DAYS, N. CLUCTPODE (MG/L)	11	7.00		0°°6		8.10	3.6

TABLE C-3h

PADANTT C NAME (UNITS)	STATION 11.774	\$141100 771778	STAT 10H	STATION 17 7/17/79	5TAT [1]H 1 1 4 7 7 4	574710W 18 7/18/79	STATION 13 14/17
HYL DATA							
TOTAL DESTH (* 1754) **NVF HEIGHT (*17FE) **CUCHINT SPIJO (FDS)	0 0	0.11	30m	١١	0.0	¢;;;	0.01
CURGENT DIGECTION (BEG FM TOUG N) PHYSICAL DATA	100		0 7 7	1	0 8:	!	343
MISCLEI AN CLE DATA	•				• • •		
*** SECTION LIG (MERGN N-DK LK DEST) SABELE DEPTH (METER) CATCHI DISK TEANSPARE GY (METERS)	30. 4.	50.	50.	50.	0 1 0	500	* C
DEPTH OF 14 SURFACE LIGHT (METERS)	4.7	1	3.3	1	· ·	;	e -
SECOND OF THE SECOND SE						;	
SAFC CONDUCTANCE, FUD (UMHOZEM 25C) CAIDATION FIDUCTION POTENTIAL (MV)		0 * 1	!!!	135.	111	180.	:::
ELISTILVED OXYGIN. LLFCTFODE (MGZL) PH (STD UNITS)		7.7	11	7.2	11	7.50	11
PH (STD UNITS)		7.70		7.60			

TAPLE C-31

PARAMETER NAME (UNITS)	57.471014 10 7/18/78	STATTON A0 7719778	STATION 4.)	STAT! JN P0	STATION 80 7/19/78	STATEON 7/18/79	STATION 7/1774
HYD OLICAL DATA	 						
1) TAL DEPTH (WITE, 0) WAVE HIGHT (WITE, 0) CUT WITE SPET (WITE, 0)	011	20 20 10 10 10	0 • E	00m	::::	0 • 0 0 • 0	3.0 0.00 0.4
CURRENT DINCETION (OTG FM TIDE N)		5.0	;	3.30	;	!	1
DHYSICAL DATA	• • •					•••	
MISCFLL 47 TOUS DATA	•			•			
X-STCTION LNC (READM H-8K LK UPST) STREET BENTH (METSES) NICOT DISK TEINIDAW, DAY (METSES)	200-1	011	•00	211	20°-	111	111
(SESTEM) THULL SOLFACE LIGHT (METERS)	1	1	!	;	!	!	;
FIELD MERCULL ARMYS				. • •		•••	
MATER TOPSCATURE (FEG C) FOR CONCOCTANCE, FLD (UMMOZCW 25C) FAIDATION FEGULTING MOSENTIAL (MV)	0.0 1.00 1.00 1.00 1.00 1.00 1.00 1.00	111	29.0 58.	111	20.0 103.	!!!	:::
PHISOLUED OXYGIN, SECOTODS (MGZE)	5.67	11	7.30	11	7.50	11	11

PARAMIT, E NABE (UNITS)	514110N FE 7/18/78	STAT1311 FF 719/78
HATELGERGEL DATA		
1314C DEPTH ("1705) 4487 H 16H1 ("1755) CUFALNT SP .D (FPS)	705 • • • • • • • • • • • • • • • • • • •	?!!
CURTENT DIFFORM TRUE N	}	1
MISCELLAGITUS DATA		
X-KTCTION LOC (XENDW M-6K LK UPST) CANEL PROTH (MITTINS) C.CCHI DISK T'ANSDIG-4CY (NITERS)	<u>:</u>	
DEPTH OF 1% SUPERCY LIGHT (WITCHS)	;	!
FIELD WEASUREMIS		
#ATES T, MPCSATUR, (DEG C) SUTC CONDUCTANCE, FLU (UM407CM 25C) * SATISATION ** SUCTION POTENTIAL (MV)	111	31.5
STSSOLVED DAYJEN, BLECTOOPE (MGZL)	11	, e

TABLE C-4a

ORPS OF INGINEERS (CONTHACT DACAOL-78-C-0101) PHASE 1, CYCLE 4

WATER QUALITY SAMPLING HESULTS

PARAMETER NAME (UNITS)	STATION 01 8/17/78	STATION 01 01 8/17/78	STATION 01 0/17/78	STATION .	STATION 01 8/17/78	STATION 01 8/17/78	ST AT ION 01 8/17/78
HYDRULUGICAL DATA							
TOTAL DEPTH (MFTERS) WAVE HEIGHT (METFRS) CLUMENT SPFFD (FPS)	e	o #11	900	311	0 11	:::	611
CURPENT ETRECTION (DEG FM TRUE 11) PMYSICAL DATA	1	.	330	}	1	!	1
MISCELLANEOUS DATA		•		•			
X-SECTION LOC (XEROM R-OK LK UPST) SAMPLE DEPTH (MOTERS) SECCHI DISK TRANSPARENCY (MFTERS)	0.01	.00-1		000	.00-1	€ 0 0 • 1	• 6 6 6
DEPTH OF 1% SUFFACE LIGHT (METERS)	1	!	6•1	;	1	}	:
FIELD MEASUREMENTS				. • •			
WATER TEMPERATUPE (DEG C) SPFC CONDUCTANCE, FLD (UMM/CM 25C) OXIDATION REDUCTION PCTENTIAL (MV)	78.0 75.	28.0	111	28.5	28.0	28.0	28.0
DISSOLVED UXYG:N, FLECTRODE (MG/L) PH (STD UNITS)	01.7	00.00	1;	0.40	7.0	6.40	7.00

ABLE C-4b

PARAMETER NAME (UNITS)	STATION 91 8/17/18	STATICH 02 8/17/78	STATEON 02 8/17/78	STATION 02 8/17/76	STAT 10N 02 8/17/78	STA1 10N	STATIUN 02 8/17/78
HYDHOLGGICAL DATA							• • • •
TOTAL DEPTH (METERS) WAVE HEIGHT (METERS) CHHEINT SPIEC (FPS)	o i i	0 %	911	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 11	911	0 1 1
CUMPENT DIRECTION (DEG FM TRUE N) PHYSICAL DATA	1	1	1	000	1	1	!
X-SECTION LOC (METERS) SAMINE DESTINATIONS (METERS) SECCEL DISK TRANSPARTNCY (METERS)	000	0.0	0.0	.00 0.0	.m 0001	 0.1	ww.
DEPTH OF 1% SURFACE LIGHT (METERS)	1	1	1	6:1	!	\ \ 	1
** FIELD MEASUREMENTS ** WATER TEMPURATURE (DEG C) ** SPEC CUNDUCTANCE, FLD (UMHD/CM 25C) ** OXIDATIEN PEEUCTION POTENTIAL (MV)	28.0	28.0 75.	28.0		28.0	78.0	0001
DISSULVED DXYGEN, ELECTRODE (MGZL) PH (STD UNITS)	7.00	7.20	7.10	!!	7.10	7.5	00.7

TABLE C-4c

PARAMETER NAME (UNITS)	STATION 02 8/17/78	STATICN 02 8/17/78	STATION 03 03 8/17/76	STATION 03 8/17/78	STATION 03 8/17/78	STATION 03 N. 17/78	STATION 03 8/17/78
HYDRCLUGICAL DATA							
TOTAL DEPTH (METCRS) NAVE HEIGHT (METFRS) CLORENT SPEED (FPS)	811	0 911	011	% !!	0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 ·	0	011
CURRENT EIRECTICN (DEG FM TRUE N) PHYSICAL DATA	1	1			53	1	;
MISCELLANFIUS BATA	•	•			• • •	•	
X-SECTION LOC (XFROW R-OK LK UPST) SAWPLF DEPTH (METFKS) SECCHI DISK TRANSPARENCY (METERS)	• n	0001	• m - 0	5.0	0.0	0.00	1.0
DEPTH OF 1% SUPFACE LIGHT (METERS)	1	1		1	2.0	;	1
FILLD MEASUREMENTS	. • •		• • •				
WATER TEMPERATURE (DEG C) SPIC CUNDUCTANCE, FLD (UNHD/CM 25C) DAIDATION REDUCTION POTENTIAL (WV)	2A.0	2 8 8 0 3 0 0 1	26.0	28.0	111	28.0	28.0 75.
DISSOLVED DXYGEN, CLECTRODE (MGZL) PH (STD LNITS)	7.10	7.00	7.03	7.00	;; 	7.8	7.10

(UNITS)	STATION 103	STATION 03 8/17/79	STATION 03 8/17/78	STATION 04 8/17/78	STATION 04 8/17/79	STATION 0 8/17/78	STATION 04 8/17/76
HYDROLOGICAL DATA							
TOTAL DEFTH (MFTERS) NAVE HEIGHT (METERS) CURRENT SPIED (FPS)	0	011		0 : 1	6.11	6 m 0 0 0	S
CURKINT DIRECTION (DEG FM TRUE N) PHYSICAL DATA	1	1	1		1	920	1
MISCELLANEDUS BATA	• •				•••		••
X-SECTION LOC (%FROW R-DK LK UPST) SAMPLE DEPTH ("CTEPS) SECCE! DISK TRANSPARINCY (METERS)	.00 .00	• m • 0	•••	• • • • • • • • • • • • • • • • • • •	001	0010	
DEPTH OF 1% SURFACE LIGHT (METERS)	1	1	1	1	1	1.7	;
FIELD MEASUREMENTS	••				••	•	
WATER TEMPERATURE (DEG C) SPEC CONCUCTANCE, FLD (UMHO/CM 25C) OXIDATICN REDUCTION POTENTIAL (MV)	28.0	28.0 75.	28.5	29.0	29.0	111	23°5
DISSOLVED UNYGEN. ELECTRODE (MG/L)	7.8	7.10	7.10	7.20	7.00	11	7.3

TABLE C-4P

PARAMETER NAME (UNITS)	STATION 04 8/11/78	STATICN 04 8/17/78	STATICN 04 8/17/78	STATION 04 8/17/78	STATIUN 05 07/17/8	STATION 05	STATIUN 05 8/17/16
HYDROLUGICAL DATA							
TOTAL DEPTH (WFTERS) Wave Hight (Mftrs) Cuiprni Spled (FPS)	¢	w 1 1	\$! !	° ! !	•;;;	÷!!	0000
CURHENT DIRECTION (CEG FM TRUE N)		1	;	}	1	;	340
PHYSICAL DATA		•	- •		•••	•	
MISCELL ANEDUS CATA	••	- •			••		
X-SECTION LOC (XFRGM F-DK LK UPST) SAWPLE CEPTH (YFTERS) SECCHI DISK TRANSPAKFNCY (MFTERS)	.00-1	6.0	90°3	000	• • • • • • • • • • • • • • • • • • •	0 - 1	
DEPTH OF 1% SURFACE LIGHT (METERS)	.	;	1	1	;	;	<u>.</u>
FIFLD MEASUREMENTS	•	••	••		••	••	
WATER TEMPERATURE (DEG C) SPFC CONDUCTANCE, FLD (UMID/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	28.5 20.	29.5	28.5	88. • 00. • 0.	28 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	28.5	111
DISSOLVED DXYGEN: FLECTRODE (MGZL)	7.10	7.2	7.4	7.4	0.2	2.0	;

TABLE C-4f

PARAMETER NAME (UNITS)	STATICN . 05	STATTCN 05 e/17/78	STAT (UN 05 E/17/78	STAT 10N 05 8/17/78	STAT 10N 05 8/17/78	STAT 50N 06 8/17/78	STATION 06 8/17/78
HVDRINL 7GI CAL DATA							
TOTAL DEPTH (METERS) WAVE HEIGHT (MITERS) CURRENT SPEED (FPS)	0	;;;	6:11	; 11	• 11	2.0	0
CURRENT CIRECTICN (DEG FM TRUF N)	1	;	1	1	1	0	1
MISCELLANFOUS CATA	•••						• • •
K-SECTION LOC (KEROW R-OK LK UPST) SAMPLE DEDTH (METFRS) SFLCHI DISK THANSPAHFNCY (MFTERS)	00°1	50.	0 0 1 0 0 0 1	0.01	300	: °	
OCPIH OF IX SURFACE LICHT (METERS)	!	;	1	1	1	2.2	1
FIFED MEASUREMENTS	•••			•			
SPEC CUNDUCTANCE, FLD (UMANZM 25C): CANDATION PEDUCTION POTENTIAL (MV)	0.00	93.	29.0	29.0 35.0	29.0 85.	111	20.0
DISSOLVED DXYGFN, ELFCTRUDF (MG/L)	7.0	7.0	7.30	7.10	7.10	11	7.10

TABLE C-40

PARAMETER NAME (UNITS)	STATION 06 8/17/78	STATION 06 8/17/78	STATION 06 6/17/78	STATION 06 8/17/8	STATION 06 8/17/79	51AT JON 06 P./17778	STATION 07 07 8/16/78
HYDROLOGICAL DATA		2 2 4 4 4 4 4	, (
TOTAL DEPTH (METERS) NAVE HLIGHT (METERS) CULARNT SPLED (FPS)	211	°!!	011	311	0		:::
CURRENT DIRECTION (DCG FM TRUE N)	}		1	;	1	1	¦
PHYSICAL DATA					. • .		
MISCELLANFOLS DATA			• • •				
X-SFCTION LOC (XFRCM R-DK LK UPST) SAMPLE DEPTH (METERS) SECCHI DISK TRANSPARENCY (METERS)	100	001 0.1		900	601 601	001	20.1
DEPTH OF 1% SURFACE LIGHT (METERS)	.	}	1	;	1	1	;
FIFLD MEASUREMIS	- • •	-	•••		•		
WATER TEMPERATURE (DEG C) SPFC CONDUCTANCE, FLD (UMHD/CM 25C)!	29.5	29.0 35.	29.0	78.5 90.	20.00 00.00 00.00	86. 85.	29.0
DISSULVED DXYGEN, ELECTRODE (MG/L) Pm (5TO UNITS)	7.2	6.8	6.9	7.20	7.3	7.3	7.0

	8/16/78	STATION 07 8/16/78	STATION 07 8716/79	ST410N 07 8/16/78	87 104 37 8/16/78	STATION 07 8/16/78	STAFION 07 8/16/78
HYDRGLOGICAL DATA							
MAVE PEIGHT (MTTERS)	• 11	0 11	0 1 1	911	0.01	611	0 1 1
CUGRENT CIRECTION (DEG FW TRUE N)		!	}		9	!	1
	• • •	• • •				•	
X-SECTION LOC (XEDEM R-BK LK UPST) : 20 SAMPLE DEPTH (METERS) : 5. SFLCHI DISK TRANSPAKENCY (METERS) :	3.0	*0 *-1	*0 • m	0.0 0.1	0.1	9-1	901
. IGHT (METERS)	· • • !	!	1	, 	· · ·	· • •	1
FIELD MEASURFWINTS		•	- •				
WATER TEMPERATURE (DEG C) SPLC CONDUCTANCE, FLD (UMHD/CM 25C): 90 OXIDATION REDUCTION POTCNTIAL (MV): 33	370	29.0 340.	29.0 90.	29°0 60°0		0.00	29°6 90°7 76°7
O DISSOLVEC DXYGEN, ELECTRODE (MG/L) . 6.	600	7.20	7.10	7.00	11	7.20	F. CO. 7

TARIF C-41

PARAMETER NAME (UNITS)	STATION 07 8/16/78	STATICN 07 6/16/78	STATION 07 8/16/78	STATION 07 8/16/78	STATION 07 9/16/78	STATION 27 8/16/78	STATION 08 3/15/78
HYDROLUSICAL DATA							••••
TOTAL DEPTH (MCTFRS) WAVE HEIGHT (MCTFRS) CUPPINT SPIED (FPS)	0 e	o e [[0	c 1	0 •!! æ!!	©	0.00
CURRENT CIRECTION (DEG FM TRUE N)	1	;	1	¦ 	; 	:	04
PHYSICAL DATA				••		••	
MISCFLLANEGUS DATA			. •	. •			•
X-SECTION LOC (YERON R-FR LK UPST) SAMPLE DEPTH (METERS) SECCHI DISK TRANSPARENCY (METERS)	036	7.0	80°	0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	.0 0 1	 6.7 1.00	C 1 30
DEPTH OF 1% SURFACE LIGHT (METFHS)	1	;	;	:	:	¦ •••	•
FIELD MEASUREMENTS		•••	••	••	••		••
WATER TEMPERATURE (DEG C) SPEC CONCUTANCE, FLD (UMHA/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	29.0	29.0	29.0	29.0	29.0 90.	26.0 92.	:::
DISSOLVED OXYGEN, ELECTRODE (MG/L) PH (510 (MITS)	6.8	7.00	7.20	7.00	. 5.8 . 7.00	7.00	! :

TABLE C-4j

PARAMETER NAME (UNITS)	STA110N 03 9716779	STATION 09 9/16/79	STATION 09 8/16/78	STATION 09 8/16/78	STATION 09 8/16/78	STATION 00 E/16/78	STATION 10 10 10 10 10 10 10 10 10 10 10 10 10
PYDROLUGICAL DATA							• • • •
TOTAL DEPTH (MTTPS) **ANY HEIGHT (MTTPS) **CUMPLNT SPEEC (FPS)	2.0	0.01	0.11	;;;	911	111	00.0
CURPERT DIRECTION (DEG FM TRUE N) PHYSICAL DATA	1	!	!	!	ļ	}	· · · · · · · · · · · · · · · · · · ·
MISCELLANFOUS DATA ** X—SECTION LOC (*FRCM R—BK LK UPST) ** SAMPLE CFPTH (MITTES) ** SICC+1 DISK TRANSPAPENLY (METERS)	0.0	610 610	0 - 1 0 - 1	•0 0 • ! wm !	001 001	6.00	0 -
DEPTH OF 1% SURFACE LIGHT (METFRS)		1.5	1	<u> </u>	;	!	5-1
WATER TEMPERATURE (DEG C) SPFC CONDICTANCE, FLD (UNHO/CH 25C) UNIDATION PECUCTION POTENTIAL (PV)	28.5 85.5 0.0	111	29.0 85.	28.5 . 85. . 440	28.5	!!!	111
OISSOLVED OXYGEN. ELECTRODE (MG/L) PH (STO UNITS)	7.60	11	8.00	7.40	7.10	::	

TABLE C-4k

PARAMETER NAME (UNITS)	STATION 10 8/15/78	STAT 10N 10 8/15/78	STATION 11 8/16/78	STATION 11 8/16/78	STATION 11 8/16/78	STATION 11 8/16/78	STATION 11 8/16/78
HVDRCLUGICAL DATA			1	/ 			
TCTAL DEPTH (MLTERS) CUPRENT SPEED (FPS)	ec		e!!	0 m	0.11	011	0,11
CURKENT DIMECTION (DEG FM TRUE N)	}	1	1	\ 		1	!
PHYSICAL DATA				••			
MISCELLANEOUS DATA					. • .		
X-SECTION LOC (XEDOM R-OK LK UPST) SAPULE OEDTH (HETERS) SECCHI DISK IPANSPARFNCY (MFIERS)	50°.	500	20.	250 150 100 100 100	40.	*D	*?: *::
DEPTH OF 1% SURFACE LIGHT (METERS)	1	1	1		}		;
FIELD MEASUPEMENTS							
TATER TEMPERATURE (DEG C) SPEC CONCOCTANCS, FLD (UMH)/CM 25C) OXIDATION MEDICTION POTENTIAL (MV)	0.00	30.0	30.0 140.	29.5 140.	30°0 140° 310°	6.00 000 000 000	130.
DISSELVED DXYGEN. ELFCTRODE (MGZL) PM (STD UNITS)	9.4	A.B 7.90	8.8 9.10	8.6	00.6	8.8 9.00	7.80
				•	•		_

ARIF C-41

PARAMETER NAME (UNITS)	STATION 11 8/16/78	STATION 11 8/16/79	STATION 11 8/16/78	STATION 11 8/10/78	STATION 11 8/16/78	STATION 11 8/16/78	ST AT 1UN 11 0/16/78
HYDRALAGICAL DATA		1 1 1 1 1 1 1					
TOTAL DEPTH (MCTERS) NAVI HI 164T (MFTERS) CL. WINT SPIED (FPS)	0.01	0 11	0-0-0	911	911	0	0 6 6
CUPRINT DIRECTION (DEG FM TRUF N) PHYSICAL DATA	1	1	1	1	1	!	;
MISCRLLANEOLS DATA X-SCRTICA LCC (YFROM R-BK LK UPST) SAWALE DEPTH ("EFFRS) SFCCFI DISK TRANSPARFNCY (METERS)	• 6 • 6 • 7	4 C	69	600	3.00	•? ••• •••	8-1 0.1
DEPTH OF 1% SURFACE LIGHT (METERS)	1	1	2 • 5	1	!	-	:
WATER TEMPERATURE (DEG C) SPIC CONDUCTANCE, FLD (UMHD/CM 25C) CAIDATION REDUCTION PETENTIAL (MV) DISSELVEE DXYGEN. ELFCTRODE (MG/L)	23.00 14.00 14.00 14.00	144. U350 U350 1544	111 11	100.0 100.0 36.0 7.6	28. 38.50 120. 120.	24.0 460 7.50	30.0 310.0 8.8

TABLE C-4m

PANAMETER NAME (UNITS)	STATION 11 8/16/79	STATION 11 8/16/78	STATION 12 12 8/15/78	STATION 12 8/15/78	STATION 12 12 8/15/78	STATION 12 12 8/15/78	STATION 12 8/15/78
HYDRCLUGICAL DATA							
TCTAL DEPTH (METERS) #AVE H(1GHT (METERS) CUEERNT SPIED (FPS)	911	911	0 1 1	111	0	#00 000 000	
CURBENT BIRECTION (DEG FM TRUE N)	1	1	1	1	;	;	!
PHYSICAL DATA	•		•		•	•	
MISCELEANFINS DATA					•••	•	
X-SECTION LOC (TEDOM R-9K LK UPST) SANFUE DEPTH (METEES) SECCHE EISK THANSDARFNCY (METERS)	80°.	300		0.00	200	50.	50.
DEPTH OF 1% SURFACE LIGHT (METERS)	i	1	ĭ	1	1	× 1.3	;
FIELD MEASUREMENTS		_			• •	••	
WATE TEMPERATURE (DIG C) SPEC CONDUCTANCE, FLD (UMMPZW 25C) UXIDATION FEDUCTION POTENTIAL (MV)	29.0 87.	29.0 95.0 560	0 • 0 0 0 0 0	111	30.0	111	90.0
DISSELVED OXYGEN, FLFCTRODE (MGZL) PH (STD LNITS)	4.00.8	5.2 8.20	8.10	11		11	8.2

PARAMETER HAME (UNITS)	STATION 12 8/15/78	STATICN 12 E/15/78	STATION 12 8/15/78	STATION 13 8/14/78	STATION 13 8/14/78	STAT10H 13 8/11/78	STATION 13 8/14/78
HYPPOLOGICAL DATA						• • • •	
TOTAL DEPTH (METERS) WAVE HEICHY (METERS) COUPIN SPIFE (FPS)	E - 1	<u></u>	211	00.50	;;;;	0 : 1	811
CUPRENT DIRECTION (DEG FM TRUE N)	;	<u> </u>	;	!	1	1	1
PHYSICAL DATA	•••			• •	• •		••
MISCELLANFOUS DATA	•			•	•	•	•••
* X-SPCTION LOC (XPPOM R-BK LK UPST) * SAMPLE DEPTH (METFES) * SECCHI DISK TRANSPARFNCY (METERS)	500-	000	.00		00-1	0000	3.0
DEPTH OF IX SUPFACE LICHT (METERS)	1	1	;	6.1	:	1	!
FIFTO MCASURFUENTS					•		• •
* SPEC CONCOCT ANCE, FLD (UMMOZEM 25C) * SPEC CONCOCT ANCE, FLD (UMMOZEM 25C) * UNIDATION RECUCTION POTENTIAL (MV)	0.00	0.00	900	111	30.0	128.5	28.5 137.
OTSSULVED DXYGEN. ELECTRODE (MGZL) PH (STD UNITS)	8•1 8•30	8.6 8.70	8.70		40000	4 1 6 1	8 80 8 80

TABLE C-40

PARAMETER NAME (UNITS)	STATION 13 8/14/78	STATION 14 8/15/78	STATION 14 14 15/78	STATION 14 14 15/78	STATION 14 8/15/78	STATICN 14 R/15/78	STATION 14 8/15/78
HYDRIK. GGICAL DATA				•••	• • • •		
TOTAL DEPTH (METERS) WAVE HEIGHT (MFTERS) CLUBENT SPEED (FDS)	φ: 1 φ: 1	, , ,	0:::	0.00	0	0	°;
CURRENT CIRECTION (DEG FM THUE N) PHYSICAL DATA	1		1	;		1	1
MISCELLANERUS DATA							
K-SECTION LOC (XFROW R-DK LK UPST) SAMPLE DEPTH (METERS) SECCHI DISK TRANSPAHINCY (METERS)	001 M41	. e	30.	0.10		• 0 • 1	0.41
DEPTH OF 1% SURFACE LIGHT (MCTERS)	•	1	¦	1.5	1	1	:
FIFTD MEASUREMENTS				••	•		
MATEL TEMPERATUPE (DEG C) SPIC CONDUCTANCE, FLD (UNHADZM 25C) (X13ATION PEDUCTION POTENTIAL (MV)	29.0 130.	1900	27.0	111	28.0 127.	127.	129.
DISSILVED DXYGEN. ELECTRODE (MG/L)	7.6 8.20	7.6	7.40	!!	7.00	5.8	7.00

DARAHETER NAME (UNITS)	STATION 14	STATTON 14 E/15/78	STATION 15 E/14/78	STATION 15 8/14/78	STATION 15 14/79	STATION 15 8/14/78	STAT 10H 15 8/14/78
MYDROLOGICAL DATA							
TCTAL DEPTH (MFTFRS) NAVE P! JGNT (MTTFRS) CUHFLNI SPFFC (FPS)	0 11	*!!	0 m	0	211	211	0 1 1
CURRENT DIRECTION (DEG FM TRUE N) PHYSICAL CATA	1	1	1		1	}	1
MISCELLANFILS DATA		_	_				
X-SECTION LOC (YERNY P-BK LK UPST) SAMPLE DEPTH (METERS) SECCHE DISK TRANSPAPINCY (MFTERS)	€E 0 1	3.0	1.00	2.0	35.	*0 ភូ- ភូគ	8 % I
OFFIN OF IN SURFACE LIGHT (METERS)	;	1	1	1	1	1	;
FIELD MEASUREMENTS							
WATER TEMPERATURE (DEG C) SPEC CCNEUCTANCE, FLD (LIMMAZEM 25C) DXIDATICN PECUCTION POTENTIAL (MV)	28.0	133.	30.0 130.	28.0 174.	28.5 12°. 320	28.0 125. 350	28.0 175. 360
DISSULVED DXYGEN. ELFCTRODE (MGZL.)	7.90	7.0	10.8 9.00	8.8	9.2 8.80	7.70	7.2

TABLE C-4a

PARAMETER NAME (UNITS)	STATION 15 15 8/14/78	STATICN 15 8/14/78	STATION 15 8/14/78	STATION 15 15 8/14/78	STATION 15 18/14/78	STATION 15 15 8/14/78	STATION 15 15 8/14/78
HYDROLOGICAL DATA	• • • • • • • • • •						• • • •
TOTAL DEPTH (METERS) WANE HEIGHT (METERS) CU-RENT SPEED (FPS)	 	8.0	811	0	©	0 #1: #1:	211
CURRENT CIRECTICH (DEG FM TRUE N)	;	1	:	¦	!	1	;
PHYSICAL DATA							
MISCELLANERUS DATA			,		• • •		
X-SECTION LOC (XFROW R-OK LK UPST) SAMPLE DEPTH (METFES) SECCHI DISK TRANSPAKENCY (METERS)	35.	500	200	00 m l	0 m l	50.	6.5°
DEPTH OF 1% SURFACE LIGHT (METFRS)	ł	2.5	¦	1	1	1	;
FIELD MEASUREMENTS		• • •	• • •				
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UNKI)ZM 25C) CAIDALION REDUCTION POTENTIAL (NV)	28.0 125. 350	!!!	28.5 120.	28.0 120. 380	28.0 120.0 340.	28.0 130.	29.0
DISSOLVED DXYGEN. FLECTANDE (MG/L) : PM (STD LNITS)	7.0	1;	9.4	7.80	9.2.2	7.50	4.50

PARAMETER NAME (UNITS)	STATION 15	STATION 15 15 14/78	STATION 15 15 15	STATION 15 15 8/14/78	1 STATICH 15 16 1714778	STATION 15 15 14/18	STAT 10N 15 8/14/78
HYDRUL GGICAL DATA			i 				
TCTAL DEPTH (MITERS) NAVÍ HEICHT (MITERS) CUHPENT SPEEE (FPS)	211	0.11	:!!	0 1 1	Q 1	0 • 1 1 & 1 1	811
CUPHENT DIPECTION (DEG FM TRUE N)	!	1	1	1	1	:	:
PHYSICAL DATA				••		• •	• • •
MISCELLANEOUS DATA				••			••
X-SECTION LOC (MERDIA R-BK LK UPST) SAMPLE DEPTH (METERS) SECCHI DISK TRANSPANENCY (METERS)	.0 .0 .1	610 l	65.0	1.00	ຫກ! ຫຼ•!	•0 n•1 En]	73.0
DEPTH OF 1% SURFACE LIGHT (METERS)	1	1	;	¦ ••	:	:	!
FIELD MEASURIMENTS			••	••	••	••	• •
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMMD/CM 25C) UNIDATION RELUCTION POTENTIAL (MV)	125°0 390	127.	28.0 127. 350	120.0	. 28.0 120. 380	128.0 125.0	28.0 128.
DISSOLVED DXYGEN. CLECTRADE (MGZL)	7.70	7.50	7.40	8.60	7.6 8.00	7.50	7.40

TABLE C-4s

1E R	STATION 16 8/14/78	STATION 16 16 8/14/78	STATION 16 16 14/78	STATION 16 8/14/78	STATION 16 16 18/14/79	STATION 16 16/14/78	STATION 16 8/14/78
PYDRULNGICAL DATA							
TOTAL DEPTH (METERS) NAVE HEIGHT (METERS) CUIMEINT SPEER (F73)	œ l l	0 • 1 1 Ø 1 1	0.00	o ! !	0 1 1	0	911
CURRENT DINCCTION (DEG FM TRUE N) PHYSICAL DATA	}	1	000				1
MISCELLANEOLS DATA			• •	• •	•		
X-SECTION LOC (REROW R-DK LK UPST) SAWNE DEPTH (MCTERS) SECCEI DISK TRANSPAKENCY (METERS)		-41	100	.m	00 - I	ນ 4.1 ບ•1	• 0 0 0 1
DEPTH OF 1% SURFACE LIGHT (METCRS)	1	;	6.1	¦	!	\ \	1
WATER TEMPERATURE (DEG C) SPFC CUNDUCTANCE, FLD (UNHD/CM 25C) DXIDATION REDUCTION POTENTIAL (MV)	28.0	26.0		28.0	28.0	28.0	30.0 9.8.1
DISSOLVED DXYGEN, ELFCTRODE (MG/L) PP (STD UNITS)	7.50	7.40	11	7.60	7.40	7.50	7.60

PARAMETER NAME (UNITS)	STATION	STATION 17 8/14/79	STAT 10N 17 8/14/78	STATION 17 17 17 18 17 18 17 18 17 18 17 18 17 18 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	STATION 17 17 14/78	STATION 17 8/14/78	STATIUN 17 8/14/78
MYDROLDGICAL DATA							
TOTAL DEPTH (MFTERS) WAVE MEIGHT (MFTERS) CUDAKINT SPIED (FDS)	0 0 1 1	0 •!! •!!	: :::	0000	•	- 1 i	•!!
CURRENT CIRECTION (DEG FM TRUE N) PHYSICAL DATA		1	1	0 1		1	
WISCILLANEOUS DATA		••			. •	••	
X-SECTION LOC (YFROW P-BK LK UPST) SAMPLE DEPTH (MFTFES) SECCHI DISK THANSPAHENCY (METERS)	0:1	0.0	0 • 1 0 • 1	500	\$0.0 •	N ;= 1	10 m
DEPTH OF 1% SURFACE LICHT (METERS)	}	1	}	1.3	1	!	;
FIELD MEASURFMENTS		••			•		
WATER TEMPERATURE (DEG C) SPEC CONCUCTANCE, FLD (UMHD/CM 25C) OXIDATION PECUCTION POTENTIAL (MV).	28.0	28.0	28.3	111	0 • 1 • 0 1 • 0 1	288 1 93.0	28.3
DISSULVED DXYGEN, FLECTRODF (MG/L)	7.40	6.6	7.00	11	800	40	9 9

TABLE C-4u

PARAMETER NAME (UNITS)	STATION 17 8/14/78	STATION 17 17 9/14/78	STATION 18 E/16/78	STATION 18 8/16/78	STATION 18 18/16/78	STATION 16 16 16/16/78	STATION 16 8/16/78
HYDROLOGICAL DATA							
TOTAL DEPTH (MCTEPS) NAVI HEIGHT (MCTERS) CURRENT SPILED (FPS)	0	0 • ! !	0	۰ ۱ ۱	5.00 3.02	0.11	0.11
CUPRENT DIRECTION IDEG FM TRUE N)	1	1		1	50	1	1
PHYSICAL DATA		٠	• • •				
X-SECTION LOC (YPDOM R-UK LK UPST) SAMULE DEPTH ("FITHS) SECCH DISK TRANSABENCY (MFTERS)	•M	.0 .0 .0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	***	0.10	001 001	100
DEPTH OF 1% SUFFACE LIGHT (METERS)	1	;	1	1	2.0	1	;
FIELD MEASURFMENTS					•		
WATER TEMPERATURE (DEG C) SPIC CENEUCTANCE, FLD (UMHD/CM 25C) OXIDATION HECUCTION POTENTIAL (MV)	28.0	28.0	29.0	29.0	111	105.	29.0
DISSULVED DXYGEN, FLECTRODE (MGZL) PP (STD UNITS)	6.A	7.00	7.50	7.50	11	8.0	7.50

PARAMETER NAME (UNITS)	STATION 19 3/16/78	STATTON 13 8/16/78	STATION 18 8/16/78	STATION 19 8/16/78	STATEON 19 8/16/78	STATION 19 19 8/16/78	STATION 19 17016/78
HYDRIN. JGICAL DATA							
TOTAL DEPTH (METTRS) WAVE HEIGHT (METGRS) CUMPLANT SPLEC (FPS)		δ. I	0 *!!	•	? }	000 000 000	ν. 0
CUPERNT CIRECTION (DEG FM TRUE N)	1		1	1	1	340	
MISCELLANEOUS DATA	••	••		•		•••	
K-SECTION LOC (MEROM M-RK LK UPST) SAMPLE DEPTH (METERS) SECCHI DISK TRANSPARENCY (METERS)	.0	000 0.3	064	0.00	0 n n		50.0
DEDTH OF 1% SURFACE LIGHT (METERS)		1	1	1	1		
WATED TEMPERATURE (DEG C) SPIC CONDUCTAICE, FLD (UMHIZEN 25C) DATION REDUCTION POTENTIAL (MV)	104.	29.0	29.0	120	29.0	111	29.0
DISSOLVED DXYGFN, ELFCTRODE (MG/L)	8.0 7.50	7.60	8.2	7.2	7.3		7.10

TABLE C-4w

PAKAMETER NAME (UNITS)	STATICN 19 19 8/16/78	STATICN	STATION 19 8/16/78	STAT10H 19 8/16/78	STAT 10N A C A C A 1 7 7 7 8	STATION A0 8/17/78	STATIUN 80 8/17/18
HYDROLOGICAL DATA							
TOTAL DEPTH (METFRS) WANE HEIGHT (METFRS) CUCHENT SPEED (FRS)	811	S. 0	φ <u> </u>	o v i	ဝက • ဝ ທ • ၊	0.5	\$ 0 *0 *0
CUPPENT DIRECTION (DIG FM TRUE N) PMYSICAL DATA	1	1	1		2 02	1 1	0° F
MISCELLANFOLS DATA	••				••	••	
X-SECTION LOC (XEDON R-OK LK UPST) SANIN E DEPTH (METERS) SECCHI DISK TKANSPARENCY (METERS)	50. 1.00-1	0 4 1 1 0 0	*F; -	80 4 1	011	90	211
UEPTH OF 1% SURFACE LIGHT (METERS) FIELD MFASUREMENTS	!	!	!	1	!	1	: 1
NATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMMOZCH 25C) DAIDALIGN REDUCTION POTENTIAL (MV)	23.0	118.	29.0 108.	29.0	111	28.0 75.	; ; ;
PISSGLVED DXVGCH, ELECTRODE (MG/L)		7.4	7.6	7.8			. !

TABLE C-4x

PARAMETER NAME (UNITS)	STATION B0 B/17/78	STATION BI B/14/78	STATION #2 8/14/78	STATION FF 8/10/78	STATION FE 8/16/79
HYDPOLUGICAL DATA					
TOTAL DEPTH (METERS) NAVF HEIGHT (METFRS) CLIFENT SPEED (FPS)	0	0 5 0 0 • 0 3	0000 6000	\$.0 3.00	0 6 1 1
CUPRENT BIRECTICM (DEG FM TRUE N) PHYSICAL DATA		1			; ·
MISCELLANFOUS DATA		••		_	
X-SELTION LUC (YFROW R-BK LK UPST) SAMPLE EEPTH (METEES) SECCEL DISK TRANSFAPENCY (METERS)	20.	111	111	111	1-1
DEPTH OF 1% SURFACE LIGHT (METERS)	·	1	;	1	
FIELD MEASUREMENTS	••	••	• •	••	
WATER TEMPERATUPE (DEG C) SPFC CORNUCTANCE, FLD (UMHOZCH 25C) OXIDATION PEDUCTION PETENTIAL (MV)	28.5 80.	111	111	111	30.0
DISSOLVED OXYGEN, ELECTRODE (MGZL)	7.2	11	!!	11	40

** LAKE SEMINDL* WATER DUALITY MANAGEMENT STUDY **
CORPS OF UNLINEERS (CONTRACT DACWOL-78-C-0101) PHANE 1: CYCLE S
WATER QUALITY SAMPLING RESULTS

PARANTYTE NAME LUNITS)	STAT10N 01 9/27/73	STATION 01 917579	STATION 02 9/27/78	STATION 02 0/27/78	STATION 03	STATION 03 03 07/28	\$14110N 04 9/27/78
HYDEAL DATA	: 1 1 1 1 1		1 				
MAN, HOTOPTH (WITTORS) MAN, HOTOPT (WITERS) COURTAL SPIED (FPS)	0 % 0 0 % 0 0 % 0	411	0.0 0.0 2.5 7.5	D +1 1 #11	0 • 0 • 0 • 0 • 0 • 0	5 •11 •11	0 FO **
CURRENT DIRTCTION (DEG FM TRUE N)	333		33	1	ć,	1	320
MISCELLAN TOUS DATA		••		••			
X-FICTION LOG (WEECM A-HK LK UPST) SAWOLE DEPTH (AFTERS) SICCHI DISK TEANDAN (MCTERS)	01-	0 - 1	53.	89-1 0-1	00 1 - 01 - 01 -	50.	010
FERTH OF IN SURFACE LIGHT (TTERS)	2 • H	· · ·	2.	· · · ·	2.3	1	·:
FISED MORSURENTATO WATER TEMPORATURE (UCG C) "SPEC CONDUCTAINED, FLD (UMIDZEM 250) CATBATTEN FOUNTAINE POTENTIAL (MV)	111	7.04.1 .04.1	111	27.5	111	27.0	111
CLSSOLVED DAYGEN. TLECTEOD (MGZL) : PH (STO UNITS)	11	0000	11	7.50		7 8 80 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11

TABLE C-5b

DARAN, T'E NAM" (UNITS)	STAT10N	STATIEN 05 9/27/78	STATION 00 3/27/78	31ATION 05 97.27.79	PT/15/C	51 17 10 V 07 9/27/78	STATION 07 0/778
HYDP N. GRICEL DATA	• • • • • • • • • • • • • • • • • • •						
AAV H 1GHT (WETER) AAV H 1GHT (WETER) COSES 47 SOLO 1795)	0	0.00	0 • 1 1	0.00 2.00 2.00	5	CUM CUM COM	0
COMPENT DIFFCTION (05G FM TRUE N) PHYSICAL DATA	1	0 46	;	0	<u> </u>	2	1
MISCILLANTOLC DATA	••	••			•••		
MACCETTON LIC (REPORM P-BK LK UPST) SAMULE DEBTH (MITERS) CRECHT (15K TIANEDAL MEY (MITERS)	001	1.0	.c.	500	• •	.00
LEPTH OF 1% SURFACE LIGHT (METL.S)	;	y .	}	1.9	1		1
FIFE WASCUKE SCHIS	• •	•			•		
MATEM TEMPERATURE (LEG C) SPIC GRADUCTATICS (DAHOZOM 25C) CALLATION FOUGTION BUT, MITAL (MV)	9.00 I	111	2.00	111	100.	111	2 • 7 ° . 900 • 00 m
CLESTLVED OXYG, N. CLECTURGE (MGZL) PH (STO UNITS)	7.50	11	7.6	!!	7.53	;;	7.2

WATER AND AIR RESEARCH INC GAINESVILLE FL F/G R/A WATER QUALITY MANAGEMENT STUDIES LAKE SEMINOLE, APRIL-NOVEMBER --FICCUI AD-A104 408 DACW01-78-C-0101 UNICLASSIFIED ACF-80-10 ML 3 OF 6 AF04408

TABLE C-5c

PAPANTTER NAME (UNITS)	STAT104 37 9/27/79	5747178 07 9/27/78	STATION 37 9/27/78	STATION 09 9/26/78	STATION 03 9/26/79	STATION 98 9/26/78	STATION 37 9/26/78
HYDP JEGGEL DATA							
TUTAL DEPTH (WETERS) COGREST SPEED (FPS)	0	ê!!	0 • 1 1 • 1 1	0.00	÷;;;	\$!!	0.20
CURCENT DINECTION (DEG EM TRUE N) PHYSICAL DATA	1		!	0 0	¦	¦	
MISCELLAN: DOS DATA	••		••				• • •
K-ECCTION LUG (MEROM P-BK LK UPST) SAMPLE DEPTH (HETLES) SECCHI DISK TEANSPAHINGY (METERS)		5.0	7.00	212	1.00	001	0 1 0
DEPTH OF 1% SUFFACE LIGHT (METERS)	1	1	1	2•0		¦	8.3
FIELD MTASUEEMENTS							
AATSG TEMPESATURE (DEG C) SPEC CUNDUCTARISE, FLD (USHOZCM 25C) UAIKATION ACROSTION POTENTIAL (MV)	27 - 5 90 -	24.50 956.	24.0 95.0	111	29.5 100. 65.0	28.0 100.	111
DISSOLVED OXYGIN. LICTOODE (MGZL) PM (STG UNITS)	0,7	7.10	7.20	11	7.2	7.23	11

PARAGETE NAME (CNITS)	STATION UC 9/26/79	STATION 09 9/26/78	STATI 34 03 0/25/78	STATION 10 1/26/78	57471FN 10 7/26/78	57471011 11 0/26/78	57.4710W 11 9/26/78
HYDE DLAGICAL CATA							
TOTAL DEPTH (AGTMES) WAVE HIGHT (ALTICE) CJESTAT FOLD (FF)	911	°		0000	e -!!	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ř:
CURRINT DIG CTICK (GEG FM TABE N)	!	1	:	}		;	;
PHY SICAL DATA	••		••				
MISCELLANTOUS DATA	••		••		••		
X-STOTION LOG (MERCW P-BK LK UNST) SAMPLE DEETH (METFINS) NECHHE CESK THANDREJNOY (MITERS)		3.0 1.0 1.0	 		80.01 0.01	6000	••••
ESPTH OF 14 SUPPLE LIGHT (METERS)	;	1	}	0.1 ^	;	2.	;
FISED MEASURENTS	••	_	••		••		
MATER TEMPS DATUS: (DUG C) SSEC CHNDUCTANCE, FLD (UMHD/CM 25C) DALGATION GENUCTION POLICITAL (MV)	2.99 9.55 1.0	0 •00 •00 •	24 24 210 410	111		111	70.5
DISCRIVED DXY, IN. ELECTRODE (MGZL) OF (STO UNITS)	7	20	40	1		1	4.4

TABLE C-5e

PAPAMETER HANG (UNITS)	STATION 11 9/26/79	STATION 11 9/26/78	STATION 11 9/26/78	STATION 12 9/26/78	STATION 12 9/26/79	STATION 13 9/25/78	STATION 13 9/25/78
HYPROLEGICAL DATA					• • • •		
AAVE HEIGHT (METERS) CUSARY SPEED (FPS)	% %	811	, i i	¢ 611	¢ : ! !	0 0 0 0	:11
CURPENT DIRECTION (DEG FM TFUE N)	1	1	;	1	¦ 	1	1
MISCELL ANGUE DATA		,					
KASTOTION LOC (MEKCY FARK LK UPST) SAVELS DEPTH (MATTER) STOCH DISK T ANSPACHEY (METERS)	500	300	\$ • 1	200	8001 001		90-1 00-1
BERTH OF IN SULFACE LIGHT (BITTERS)	1	;	!	9 0 <	;	2.0	1
FIELD MEASUFUMENTS WATER TEMPERATURE (10 C) SPEC CONDUCTANCE, FLD (UMHOZEM 25C) CAICATION PUDUFINE (MV)	23.	28.5	9 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	111	0 ·	111	23.0 195.
DISSOLVED DXXG-N, FLCCTEODS (MGZL) EM (STO UNITS)	7.7	 	7 · 3	11	8.40	11	400

TABLE C-5f

DEGRETTL NAME (URITS)	51 AT 1 GN 13 97.55.79	STATION 13 9/25/78	STATION 14 9/27/79	STATION 14 9/27/79	STATION 15 9/25/78	STATION 15 9/25/74	STATION 15 9/25/78
HYD: OLUGICAL DATA							
TOTAL DEPTH (WITERS) ANY HIGHT (WITERS) COMPENT SPICE (FPS)	0	; ;	•••	:::	0=0	·	• ! !
CURRENT DIM CTION (DEG FM TRUE H) PHYSICAL DATA		!	;	!	}	1	1
MISCELLANTLE DATA	••			• • •			• •
X-SECTION LOG (XFROM 6-DK LK UPST) SAMEL: DEPTH (MLT: 6-) - 'COPI DISY TIARSTALLICY (MLTES)	0 mm	30.	1.0	200-1	- 1 - 2	.0	
DEDTH OF 18 SHOFAC LIGHT (MFTIFS)	1	1	3.0	1	2.3	1	;
FIELD MEASUFFICIATS	• •			•••		•	••
BATER TEMPERATURE (DEG. C) CACC CUNDUCTANCE, FLD (UMMO/CM 25C): CALDATION REDICTION PATENTIAL (MV)	29.0 165.	28.5 173. 370	111	25.5	111	29.0 162.	1842 142
FINESOLVED TXV-S N. FLLCTFECH. (PGZL)	0.8 0.8	7.4 R.20	11	7.50	11	g. 6	1,00

TABLE C-5q

PAPANETER NAME (UNITS)	STATICH 19 9/26/78	STATION 10 9/26/78	STATION 10 9/26/79	STATEON A0 9727778	CTATION A) 7/27/78	STATION 9/27/79	9/27/78
HWE FOL 161CAL DATA							
TOTAL DEUTH (MITEDS) AND HIGHT (MITEDS) CURETHT SPIN (PPS)	:11	5 • 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0	0	0.00 0.00 0.00	C - 1 1	000	e
CJARENT DIRTETION (DEG FM TAUR N) PHYSICAL DATA	}	0	1	50	!	066	1
MISCELLANGUE DATA RECTION UNC (RESON FROM LK UPST) SAMILE DENTH (MITTERS) ECONT DISK THANSHAFT NOY (MITTERS)	001	200	0001	\$11 I	0011	!!!	0011
FIELD MCASURENENTS FIELD MCASURENENTS BAYER TEMPERATURE (DGG C) SAFC CONCUCTANCE, TLD (UMMACM 28C) CIERTINA E DAGTINA BATINITAL (MV) LISSULVED UNVANA ELECTRODE (MACL) AA (STD UNITS)	1 6.4 1.4 1.4 1.5 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	* .	1 47 1 100 1 100 1 100	111 11	27 - 45 3	111 11	60 60 7 7 7 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

TABLE C-51

PARAMETER NAM" (UNITS)	STATION 81 9725/78	STATION 82 9/25/78	STATION FE 9726/78	31A71UN FF 9/26/78
HYDE-L-CICAL GATA				
TOTAL DEPTH (MLTFOE) MAVE MEIGHT (MCTEUS) CUFUFIT SPEID (FPS)	070 N • 0	0.03	00.0 0.00	811
CUPSENT DIRECTION (DEG FM TRUE N) PHYSICAL DATA	1	1		¦
MISCELLANGOUS CATA	••			
K-STOTTON LOC (KEROW C-HK LM UUST) SAVELP DEPTH (WITZES) SECCHI DILK TEANGRAUNCY (MITERS)	1::	111	<u>.</u>	1:35
DEPTH OF 1X SUFFACE LIGHT (METERS)	;	1	1	!
FIELD MEASUREMENTS	••	••	•	
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE: FLD (UNHOVEM 25C): CRICATILM SIGNISTION POTENTIAL (MV):	111	111	111	28.0 0.50 0.50
LISCULVED UXYG'N. ELECTRODE (MGZL) . PH (ST) UNITS)	11	11	11	7.5

TABLE C-6a

** LAKE SEMINDLE WATER QUALITY MANAGEMENT STUDY **
CORPS OF EMGINEERS (CONTRACT DACAOI-79-C-0101) PHASE 1, CYCLE 5
WATER QUALITY SAMPLING RESULTS

PARAMETER NAVE (UNITS)	STATION 01 11/29/78	STATION 01 11/29/78	STATION 02 11/29/79	STATION 02 11/20/73	STATION 03 11/29/78	STATION 03 11/20/78	STATION 04 11/23/78
HVDPOLOGICAL DATA							
* TUTAL DEPTH (WITERS) * WAVE HISON (WITERS) * CULTENT SPEED (FPS)	0°E 0	e ::11	000 * 00 * 0	e i i	0 0 0 0 0 0 0 0	e :	0 000
PHYSICAL DATA MISCELLANEULS DATA							• • •
X-SECTION LOC (MFDEM R-9K LK UPST) SAWELE DEPTH (METERS) SECCHI DISK TJANSPAKTHOV (MFTERS)		50	. p	50.	£ 10	200-1	\$0 I O
DEPTH OF 1% SUFFACE LIGHT (*ETERS)	2.6	1	2.5	· · ·	2.		2.2
FIELD MEASUREMENTS	•						•
* MATER TEMPERATURE (D.G. C.) * SP.C. CONDUCTANCE, FLD (UMMOZCM 25C) * (KIDATION REDUCTION POTENTIAL (MV)	111	181 0 • 11	111	18.0		0.01	
DISSULVED DXYGEN, FLECTADDE (MGZL)	11	7.00	11	7.90		7.20	11

TARLE C-6h

PARAMETER NAME (UNITS)	STATION 34 11/29/78	STATION US 11/29/78	STATION 05 11/27/78	STATIUN 06 11/29/78	STATION 35, 11/29/78	STATION 07 11/30/78	574710H 07 11/30/78
MYDFOLIIGICAL DATA							
TOTAL DEPTH (METERS) SAVE MEIGHT (VETERS) CUFHENT SPEED (FPS) PHYSICAL DATA	2 11	80 O M • O • M • O • M	si (0.0.	0 411	E O C	sn •
X-ESCTION LOC (KFOW R-BK LK UPST) SAFETH (MITTES) SACCHI DISK TWANSWAFENCY (METERS) DEFTH OF 1% SUKFACE LIGHT (FETERS) FIELD MEASUREMENTS	%- 	80 1 O 31	000	cu o	001	• # F	1.00
	18.0 36.0 7.20		14.0 102. 7.20	111 11	19.0 101. 7.20		112.

PARASTER NAME (UNITS)	STATION 07 11/30/78	STATION 07 11/30/78	STATION 29 11/30/79	STATION 39 11/30/78	STATION 04 11/30/74	57 AT 10:1 0 11 / 30 / 7 A	STATION 00 11/29/78
MYDROLOGICAL DATA					• • • •		
1374 DEPTH (METERS) - NAVE HEIGHT (METERS) - CORREST SPLEG (FDS) - DAYCSTAL DATA	÷11	·	roo 100 100	e ! !	\$ # 1 1	n .	0.00
MISCELLANGOUS CATA	••	•					••
SAMELE DEBTH (METERS) SAMELE DESTH (METERS) SECTION LOC (AFORM R-BK LK UPST)	.0 0 0 1	80 K	11.5	1:1	N	÷	0 1 0
CEPTH OF 14 SUPFACE LIGHT (METERS)	1	1	•	1	1	1	2-1
FIELD MMASUREMENTS	• • •	•					
SPEC CONDUCTANCE, FLD (UNHOZCH 25C) CATEATION HEDUCTION POTENTIAL (MV)	19.0	19.0	;;;	117.	0.01	117.	111
Clesolved Daygen, FLECTRODE (MGZL) PH (STD UNITS)	m e i	7.10	11	7.30	¢	7.30	!!

TABLE C-6d

PARAMETER NAME (UNITS)	STATION 09 11/29/78	STATION 00 11/29/78	STAT10W 09 11/22/78	STATION 10 11/28/78	STATION 10 11/28/78	STATION [1] [1]/28/79	STATION 11 11/29/78
HYDROLGGICAL DATA							
TOTAL DEPTH (M2TERS) 64VE HEIGHT (M2TERS) CURRENT SPEED (FPS)	011	9 1 1	0 :::	0 4 0	0 -11	0.00	·!!
PHYSICAL DATA MISCELLANGOUS DATA	•••						
X-SECTION LDC (NERDY R-BK LK UPST) SAMELE DEPTH (WEYERS) SECCHI DISK TRANGMARENCY (METERS)	50.	300	000 m	.1.0	00 I	& 1 0	
DEPTH OF IX SUFFACE LIGHT (METFRS)	1	ł	;	0	1	~ •	¦
FIELD MEASUREMENTS MATER TEMPERATURE (DEG C) TO C CUNDUTANCE, ELD (UMHOZEM 25C) CATERTIEN POTETTEN POTENTIAL (MAY)	8 4 5 5 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1.8.0 1.8.0	18.0 11.1.	111	04.0	111	- 1 - 0 - 1 - 0 - 0 - 0
FISSOLVED UXYGEN, CLECTRODE (MG/L)	7 - 10 7 - 10		7.2	11	4.04.7	11	40,

TABLE C-6e

PARAMETER NAME (UNITS)	STATION 11 11/29/78	STATION 11 11/28/78	STAT TON 1 3 11/2 3/78	STATION 13 11/29/78	STATION 13 11/28/78	STATION 13 11/29/78	STATION 13 11/29/78
HYDRULGGICAL DATA							
- 101AL DEPTH (METTES) - MANE HEIGHT (METERS) - CUCHENT SPEED (FPS) - PHYSICAL DATA	0 11	o •	R. C. C. C. C. C. C. C. C. C. C. C. C. C.	e	e	۳ ۴	œ
MISCELLANGOUS DATA ** X-SECTION LOC (#FROM K-RK LK UPST) * SAMELE DEPTH (METERS)		.85.4	• 1	*00-1	30.0	00.	•00
* SECCET DISK TEANSPARENCY (WETERS) * DEFTH OF 1% SUHFACE LIGHT (METERS) *		1 1	2.7			1	
* RIELD MEASUREMENTS * NATER TEMPERATURE (05G C) * CAC CONDUCTANCE, FLD (UMMIXCM 25C) * CAICATION REDUCTION POTENTIAL (MV) * DISSOLVED DAYGEN, FLECTRODE (MG/L)	18.5 17.	811 814 810 910 910	111 11	######################################	ພສ ຄອໄ ແ! ຄອໄ •!	4. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	m m
FT (STD UNITS)	-	7.70	:	7.90			_

TARIF C-6F

PARAMETER NAME (UNITS)	STATION 1	STATTON 15 11/29/78	1	STATION STATION 15. 11/28/78	STAT10N 15 11/28/78	STATION 16 11/28/78	STAT10H 17 11/29/78
MYDROL 3GICAL DATA							
	111	000	ċ	e • ! !	0 0 0 0 0 0 0	¢	0 6
MISCELLANGOUS DATA METALE DEPTH (WETARS) S. CCFI DISK THANGHAR LANGUAGE	۱۵	20.	50°	გე 1900 1900	0.1	50.	ου 1
CLPTH OF 1X SUPFACE LIGHT (METERS)		7.0	: :		5.0		
MATER TEMBERATURE (DEG C) SPEC CONDUCTANCE: FLD (UMHOZCH 25C): EXICATION PEDUCTION POTENTIAL (MV)	0.61	111	8.4 8.4 6.4 6.4	ທ • ຕ • ຕ ທ ພ ຈ ຈ ສ ສ ສ	!!!		111
LISSOLVED DXYGEN, ELECTHODE (MGZL)	7.30		7.90	7.40	; ;	4.1 7.30	11

TABLE C-6q

PARAMETER NAME (UNITS)	STATION 17 11/28/79	STATION 18 11/30/78	STATION 18 18 11/30/78	STATION A0	STATION AO 11/29/78	STATION 80 11/20/74	STAT10N R0 11/29/79
HYBPDLOGICAL DATA							
	0 0 1	2.0	0	0 100 100 100 100 100	C * 1 ! !	00 k	0 11
MISCELLAN CUS DATA *** SECTION LID (METCH R-BK LK UPST) *** LICHI DESTH (METERS) *** CCHI DESK T-ANSPAPRICY (METERS) *** LEFTH OF 1% SUMFACE LEGHT (METERS)	0-1-1-0-1	V 2.0	*****	90 - 9 - 6 - 9 - 7 - 9	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	0 to	**************************************
FILD WEASUMEPFNTS - AT TEMPLISATURE (UEG C) - CANDUCTANG, FLO (UMHD/CM 25C) - CANDUCTANG, FLO (UMHD/CM 25C) - CANDUCTANG, FLO (UMHD/CM 25C) - CANDUCTANG, FLO (UMHD/CM 25C) - CANDUCTANG, FLO (UMHD/CM) - CANDUCTANG, FLO (UMHD/CM) - CANDUCTANG, FLO (UMHD/CM)	145.0 145.0 7.4 7.20	111 11	122.0 122.0 7.60	111 11	0.00 %	111 11	0 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

TAR! F C-6h

PARAMETER NAME (UNITS)	STATION FE 11/29/78	STATION FF 11/29/78
HYDEOLOGICAL DATA		
137AL DEPTH (METERS) MANS HEIGHT (METERS) CORRENT SPECO (FPS)	0 • 0 F 0	0::1
PHYSICAL DATA		
MISCELLANGOUS DATA		
KASCTICN LOC (KFUON KABK LK UPST) SAVELE DEPTH (METERS) SECCHE DISK TAANSPALINCY (METERS)	• • • • • • • • • • • • • • • • • • • •	40-1
CEPTH OF 1% SUPFACE LIGHT (METERS)	0.1	¦
FIELD MEASUREMENTS		
WATER TEMPERATURE (DGG C) SPFC CONDUCTANCE: FLD (UMHDZCM 23C) LAIDATION AECUCTIVE PRIENTIAL (MV)	111	18.5
DISSULVED DXVGCN. ELECTRODE (MGZL) PM (STD UNITS)	11	5.6

APPENDIX D
WATER QUALITY SAMPLING RESULTS

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Typical Plan and Cross Section of a Lake Seminole Sampling Station

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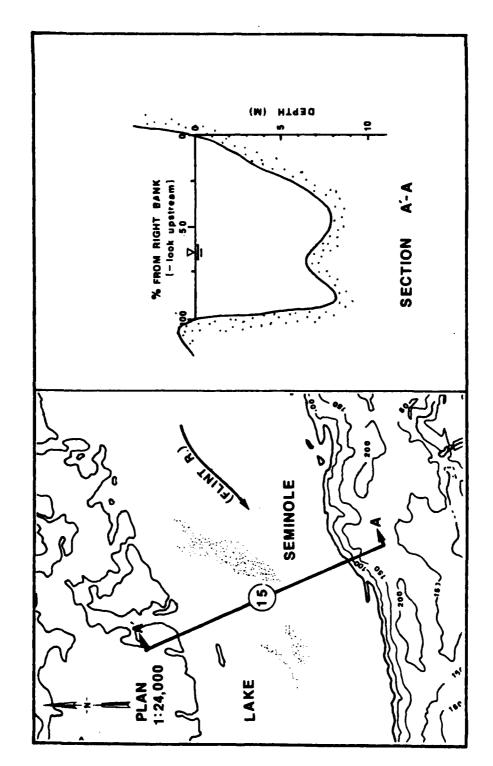


FIGURE D-1. TYPICAL PLAN AND CROSS SECTION OF A LAKE SEMINOLE SAMPLING STATION.

TABLE D-1a

** LAKE SEMINDLE WATER QUALITY MANAGEMENT STUDY ** COSPS OF THUINGERS (CONTRACT DACHOL-TA-C-ULDI) PHASE I. CYCLE I

WATER QUALITY SA MEING PESULTE

G	ra	h	Sa	mn 1	es
	•	v	Ju		

PARAMETER NAME (UNITS)	STATION	37ATION)2 4/13/78	STATICU 23 4/19/78	57ATTON 3A 4/18/79
PHYSICAL DATA	•			
MISCELLANE DUS DATA	•			
X-SECTION LOC (XELOM REDK LK UPST) SAMPLE DEPTH (MOTERS)	50.	50. 1.)	50. 1.0	50. 1.0
FIELD MEASUREMENTS	•			
* WATER TEMPERATURE (DEG C) * SPEC CONDUCTANCE: FLD (UMHD/CM 25C) * OXIDATION REDUCTION POTENTIAL (MV)	19.0	19.0 62.	19.9 51.	10.0 70.
DISSULVED DXYGEN. ELECTRODE (MG/L) PM (STD UNITS)	9.3 7.70	9.5 7.25	9.4 7.20	9.0 7.10
LABORATCRY DATA				
* CCLOP (PT-CO UNITS) * TURBIDITY . HACH TURBIDIMETER (FTU) * TCTAL FILTERABLE RESIDUE (MG/L)	55. 25.00	50. 23.70 60.	50. 24.03 62.	50. 14.02 62.
TOTAL NONFILTERABLE RESIDUE (MG/L)	10.	< 10.	22.	35.
CHEMICAL DATA	•			
MINERALS AND METALS	•	•		•
* ALKALINITY, TOTAL (MG CACO3/L) * SULFATE, DISSOLVED (MG SD4/L) * IRON, DISSOLVED (UG FE/L)	14. 5. 200	16. 4. 153	16. 4. 150	17. 5. 150
* IRON, TOTAL (UG FE/L) * MANGANESE, DISSOLVED (UG MN/L) * MANGANESE, TOTAL (UG MN/L)	1710 < 50 60	1570 < 50 70	2190 < 50 90	1930 < 50 90
ZINC. TOTAL (UG ZN/L)	30	30	30	50
NUTRIENTS	•	9		•
* CARBON, DISSOLVED ORGANIC (MG C/L) * CARBON, TOTAL ORGANIC (MG C/L) * CARBON DIDXIDE (MG CO2/L)	< 9. 6.	< 8. 6. 1.9	< 7. 5. 2.1	< R.
* NITPOGEN: TOTAL AMMONIA (MG NZL) * NITROGEN: NITEATE + NITE (IE (MG NZL) * NITEOGEN: TOTAL INDRGANIC (MG NZL)	0.20 0.22 0.31	0.11 0.27 0.33	0.10 0.2° 0.3°	0.12 0.27 0.39
* DETHUPHOSPHATE: DISSCLVED (MG PZL) **PHOSPHORUS: TOTAL (MG PZL)	<3.71 0.39	0.31 3.33	2.31 2.35	0.07

TABLE D-1b

PARAMETER NAME (UNITS)	STATION 05: 4/17/78	574T[]*) 95 4/14/78	5*ATION 07 4/19/73	STATION 000 000 000 000 000 000 000 000 000 0
PHYSICAL DATA				•
MISCELLANEOUS DATA				
X-SECTION LCC (XFECM P-BK LK UPST) SAMPLE DEPTH (METIES)	50. 1.0	50. 1.0	50. 1.2	50. 1.0
FIELD MEASUREMENTS		•		
WATER TEMPTRATURE (DEG C) SPEC CONDUCTANCT, FLD (UMMO/CM 25C) DXIDATION REDUCTION RETENTIAL (MV)	20.0	19.0 70.	19.7 53. 480	21.0 54. 430
DIESOLVED OXYGEN, ELECTRODE (MG/L) PH (STD UNITS)	۵.0 7.40	9.0 7.10	9.d 7.00	7.10
LABORATORY DATA				
• CCLER (PT+CO UNITS) • TURBIDITY, MACH TURBIDIMETER (FTU) • TOTAL FILTERABLE RESIDUE (MG/L)	60. 28.00 55.	60. 24.00 65.	47. 23.00 52.	50. 29.00 56.
TOTAL NONFILTERABLE RESIDUE (MG/L)	17.	12.	< 10.	20.
CHEMICAL DATA				
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, DISSOLVED (MG SO4/L) IRON, DISSOLVED (UG FE/L)	15. 4. 150	23. 6. 233	15. 6. 150	17. 200
IRON, TOTAL (UG FE/L) MANGANESE, DISSOLVED (UG MN/L) MANGANESE, TOTAL (UG MN/L)	1990 < 50 100	1840 < 50 60	1950 < 50 70	2130 < 50 90
ZINC. TOTAL (UG ZNZL)	30	30	30	30
NUTRIENTS				
CARBON, DISSULVED DRGANIC (MG C/L) CARBON, TOTAL DRGANIC (MG C/L) CARBON DIDXIDE (MG COZ/L)	< 9. 6. 1.2	< 7. 5. 3.4	< 8. 5. 3.2	< 7. 6. 2.8
NITROGEN. TOTAL AMMONIA (MG N/L) NITROGEN. NITRATE+NITTITE (MG N/L) NITROGEN. TOTAL INCRGANIC (MG N/L)	0.07 0.32 0.39	0.12 0.29 0.41	0.10 0.27 0.37	0.10 0.27 0.37
ORTHOPHOSPHATE, DISSCLVED (MG P/L) PECSPHORUS, TOTAL (MG P/L)	0.02 0.03	0.01 0.06	0.01	0.01 0.05

TABLE D-1c

PANAMETER NAME (UNITS)	STATION 00 4/19/78	57 AT 1U1 10 4/23/79	11	STATION 12 4/29/73
PHYSICAL DATA				•
MISCELLANEOUS BATA			, ,	
X-SICTION LOC (MEROM R-OK LK UPST) SAMPLE DEPTH (METERS)	50. 1.0	= 0. 1.0	90. 1.0	50. 0.5
FIELD MEASUREMENTS				
WATER TEMPERATURE (DEG C) SETC CONDUCTANCE, FED (UMHO/CM 25C) CXIDATION FEDUCTION POTENTIAL (MV)	23.5 71. 500	19.0 53. 500	13.5 71. 450	23.0
DISSOLVED DXYGEN. ELECTRODE (MG/L) PH (STO UNITS)	8.3 7.1 3	8.3 6.70	9.0 7.13	8.2 7.90
LABGRATORY DATA	•			
COLOR (PT-SO UNITS) TURBIDITY, MACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	60. 30.33 60.	55. 35.00 57.	50. 26.90 59.	2.20 68.
TOTAL NONFILTERABLE RESIDUE (MG/L)	18.	17.	14.	< 10.
CHEMICAL DATA				
MINERALS AND METALS				•
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, DISSOLVED (MG SDA/L) IRDN, DISSOLVED (UG FE/L)	19. 203	16. 5. 15)	23. 5. 200	42. < 1. 50
. IRDN. TOTAL (UG FEZL) • MANGAMESE. DISSOLVED (UG MNZL) • MANGAMESE. TOTAL (UG MNZL)	1660 < 50 70	20 50 < 50 70	1770 < 50 80	120 < 50 100
ZINC, TOTAL (UG ZN/L)	30	30	30	5.0
NUTRIENTS	•	•		•
CARBON. DISSELVED ORGANIC (MG C/L) CARBON. TOTAL OFGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	< s. 7 3.1	< 8. 7. 6.3	< 7. 7. 3.9	9.
* NITROGEN: TOTAL AMMONIA (MG N/L) * NITROGEN: NITRATE+NITRITE (MG N/L) * NITROGEN: TOTAL INORGANIC (MG N/L)	0.03 0.29 0.37	0.32 0.29 3.33	0.05 0.27 0.33	0.0A <0.01 <0.09
. PRINCENESS HATE, DISSOLVED (MG PVL) PRICEPHORUS, TOTAL (MG PVL)	0.01	<0.01 0.14	<0.01 0.03	<2.31 0.02

TABLE D-1d

PARAMETER NAVE (UNITS)	STATION 13 4/23/78	5TATION 14 4/23/73	STATION 15 4/21/75	5747101 15 4/21/73
PHYSICAL DATA			·	
MISCELLANFOUS DATA			•	,
X-SECTION LOC (MERCH F-AK LK UPST) SAMPLE DEPTH (METRES)	30. 1.0	50. 1.)	50. 1.0	50. 1.0
FIELD MEASUREMENTS				
WATER TEMPERATURE (DEG C) SPEC CONDUCTABLES FLD (UMHOVEM 250) OXIDATION FEDUCTION POTENTIAL (MV)	21.J 95. 490	20.5 142.	21) 90. 460	20.5 95.
DISSULVED OXYGEN. ELECTRODE (MG/L) Ph (STD UNITS)	7.40	7.50 7.50	7.1 7.20	7.4 7.30
LABORATORY DATA				
• COLOR (PT-CO UNITS) • TURBIDITY, MACH TURBIDIMETER (FTU) • TOTAL FILTERABLE RESIDUE (NG/L)	13.00 72.	65. 16.00 112.	50. 13.00 72.	50. 11.00 65.
* TCTAL NONFILTERABLE RESIDUE (MG/L)	< 10.	< 10.	< 10.	11.
CHEMICAL DATA		•		
MINERALS AND METALS		:	•	
ALKALINITY. TOTAL (MG CACD3/L) SULFATE. DISSOLVED (MG SG4/L) IFON. DISSOLVED (UG FE/L)	36. 1. 350	69, < 1. 250	32. 1.	34. < 1. 400
IFON, TOTAL (UG FE/L) MANGANESE, DISSOLVED (UG MN/L) MANGANESE, TOTAL (UG MN/L)	1320 < 50 60	820 < 50 < 50	1390 < 50 70	1550 < 50 110
ZINC, TOTAL (UG ZN/L)	20	10	10	20
NUTPIENTS		;	:	
CARBON. DISSOLVED DEGANIC (MG C/L) CARBON. TOTAL DEGANIC (MG C/L) CARBON DIGNIDE (MG CO2/L)	< 8. 5. 3.1	< 10. 8. 4.5	< 9. 6.	< A. 6. 3.5
NITPOGEN. TOTAL AMMONIA (MG N/L) NITROGEN. NITRATE+NITPITE (MG N/L) NITROGEN. TOTAL INCREANIC (MG N/L)	0.03 0.30 0.33	0.07 0.21 0.29	0.12 0.32 0.44	0.07 0.35 0.42
ORTHOPHOSPHATE. DISSOLVED (MG P/L) PHOSPHORUS. TOTAL (MG P/L)	0.02	<0.01 0.03	0.03 0.03	0.02

TABLE D-1e

PARAMETED NAME (UNITS)	STATION	STATION 4/10/73	ເ ່ ເດັ່ ເ
PHYSICAL DATA	•	•	
MISCELLANEOUS DATA	•		
X-STOTION EGG (REGGM S-BK EK UPST) RAMPLE DEPTH (METERS)	50. 1.0	5U. 1.U	50. 1.0
FIELD MEASUREMENTS	•		
AATER TEMPERATURE (DEG C) SPEC CONDUCTANCE: FLD (UMMJ/CM 25C) CXIDATION REDUCTION POTENTIAL (MV)	23.0 95.	21.5 20. 	21.5 105.
DISSULVED CXYGEN. ELECTRODE (MG/L) PF (STO UNITS)	7.7 7.20	9.7 7.43	7.30
ATAG YACTARCEAL			
CCLCR (PT-CO UNITS) TURBIDITY: MACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	11.00	70. 37.0) 72.	50. 30.00 75.
TCTAL NONFILTERABLE PESIDUE (MG/L)	< 10.	15.	11.
CHEMICAL DATA	•	•	
MINERALS AND METALS	•		, ,
ALKALINITY, TOTAL (MG CACOD/L) SULFATE, DISSOLVED (MG SOA/L) IRON, DISSCLVED (UG FE/L)	34. 1. 400	25. 5. 150	32. 4. 200
IFON, TOTAL (UG FF/L) MANGANESE, DISSCLVED (UG MN/L) MANGANESE, TOTAL (UG MN/L)	1390 < 50 80	2250 < 53 90	1730 < 50 80
ZINC: TOTAL (UG ZHZL)	40	20	30
NUTRIENTS	•		
CARBON, DISSOLVED DEGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	8. 3. 4.5	< B. 7. 2.0	< 7. 6. 3.3
NITROGEN, TOTAL AMMONIA (MG NZL) NITROGEN, NITRATE+NITRITE (MG NZL) NITROGEN, TOTAL INCRGANIC (MG NZL)	0.10 0.35 0.45	0.12 0.27 0.39	0.13 2.32 2.45
ORTHUPHOSPHATE, PISSCLVED (MG PZL) PHOSPHOPUS, TOTAL (MG PZL)	0.02 0.75	0.02 0.07	0.02

TABLE D-2a

** LAKE SEMINULE WATER QUALITY MANAGEMENT STUDY **
CCEPS OF ENGINEERS (CONTRACT DACWOL-73-C-0101) PHASE 1. CYCLE 2

WATER QUALITY SAMPLING RESULTS

Grab Samples

	201111162			
PARAMETER NAME (UNITS)	STATION 01 6/ 7/75	STATION 02 6/ 7/78	STATION 93 6/ 7/75	STATION 94 6/ 7/78
PHYSICAL DATA				
MISCELLANE CUS DATA				
X-SICTION LOC (XFRCM P-8K LK UPST) SAMPLE DEPTH (METERS)	50. 1.0	50. 1.7	50. 1.0	50. 1.2
FIELD MEASUREMENTS				
* WATER TEMPERATURE (DEG C) * SPEC CUNDUCTALCE. FLD (UMHD/CM 25C) * OXIDATION REDUCTION POTENTIAL (MV)	24.0 60.	23.0 60. 	24.0 60.	24.0 61.
DISSULVED DXYGEN, ELECTRODE (MG/L) PH (STD UNITS)	7•3 7•5)	8.) 7.00	7.3 6.90	7.5 7.20
LABGRATORY DATA				
COLCR (PT-CC UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	50.00 58.	95. 40.00 62.	120. 75.00 59.	100. 60.00 70.
TOTAL NONFILTERABLE RESIDUE (MG/L)	17.	29.	103.	5ა.
CHEMICAL DATA				
MINERALS AND METALS			·	
ALKALINITY, TOTAL (MG CACD3/L) SULFATE, DISSOLVED (MG SD4/L) SULFIDE, TCTAL (MG S/L)	13. 5.	15. < 0.1	14.	1A. 6. < 0.1
• IPDN. DISSOLVED (UG FEZL) • IRON. TOTAL (UG FEZL) • MANGANESE. DISSOLVED (UG MNZL)	230 2130 < 50	219 2440 < 50	170 3050 < 50	160 3 932 60
MANGANESE, TOTAL (UG MN/L) ZINC, TOTAL (UG ZN/L)	90 30	90 3 0	110 53	130 30
NUTRIENTS			•	
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	< 10. 8. 0.8	< 12. 8. 3.0	< 10. 9. 3.3	11. 2.2
NITHOGEN, TOTAL AMMONIA (MG N/L) NITHOGEN, NITHATE+NITH ITE (MG N/L) NITHOGEN, TOTAL INDRGANIC (MG N/L)	0.09 0.36 0.45	0.11 0.42 0.53	0.10 0.35 0.45	0.08 0.35 0.44
* OFTHOPHOSPHATE, DISSOLVED (MG P/L) * PHESPHORUS, TOTAL (MG P/L) **	0.02 0.15	0.02 0.14	0.02 0.25	9.92 9.22

TABLE D-2b

PARAMETER NAME (UNITS)	STATIUM 05 6/ 7/79	STATION 04 5/ 7/78	5747174 97 6/ 6/78	57 47 104 09 67 6778
PHYSICAL DATA	•			
MISCELLANEOUS DATA				
X-SECTION LOC (XFFOM R-BK LK UPST) SAMPLE DEPTH (METERS)	50. 1.0	50. 1.J	50. 1.0	50. 1.5
FIELD MEASUREMENTS				
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE: FLD (UMHD/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	24.0 70.	24.0 65.	25.0 69. 470	25.9 71. 490
DISSOLVED OXYGEN. ELECTRODE (MG/L) PH (STD UNITS)	6.8 5.90	6.9) 6.9)	7.5 7.00	7.1 7.00
LABORATORY DATA				
CCLCP (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTEFABLE RESIDUE (MG/L)	150. 120.30 [18.	123. 150.00 104.	100. 90.03 79.	110. 90.00 91.
TOTAL NONFILTERABLE RESIDUE (MG/L)	63.	119.	25.	26.
CHEMICAL DATA				
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, DISSOLVED (MG SD4/L) SULFIDE, TOTAL (MG S/L)	17. 5. < 0.1	16. < 0.i	17. 4. < 0.1	18. 3. < 0.1
IRON, DISSOLVED (UG FEZL) IFON, TOTAL (UG FEZL) MANGANESE, DISSOLVED (UG MNZL)	130 4990 60	150 5010 < 50	150 4283 < 50	130 4150 < 50
MANGAMESE, TOTAL (UG MN/L) ZINC, TOTAL (UG ZN/L)	140 30	150 40	70 70	80 50
NUTRIENTS				
CARBON. DISSOLVED ORGANIC (MG C/L) CARBON. TOTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	10. 12.	10. 11. 3.8	10. 11. 3.3	9. 11. 3.5
* NITROGEN, TOTAL AMMUNIA (MG N/L) * NITROGEN, NITRATE+NITRITE (MG N/L) * NITROGEN, TOTAL INCRGANIC (MG N/L)	0.08 0.34 0.42	0.10 0.33 0.43	0.11 0.34 0.45	0.08 0.33 0.41
* CETHOPHOSPHATE, DISSOLVED (MG P/L) * PHOSPHORUS, TOTAL (MG P/L) **	0.02 0.28	0.02 0.34	0.03	0.02 0.09

TABLE D-2c

PARAMETER NAME (UNITS)	STATION 09 6/ 6/74	STATION 10 6/ 5/79	STATION 11 5/ 6/75	STAT! 04 12 6/ 7/76
PHYSICAL DATA	•	•	•	·
MISCELLANEOUS DATA				
X-SECTION LOC (XFPOM P-BK LK UPST) SAMPLE DEPTH (METERS)	50. 1.0	50. 1.0	50. 1.0	50. 0.6
FIELD MEASUFEMENTS				
MATER TEMPERATURE (DEG C) SPEC CONDUCTANCE: FLD (UMHG/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	26.0 87. 440	26.0 85. 430	26.0 128. 400	33.0
DISSOLVED DXYGEN, ELECTRODE (MG/L) PH (STD UNITS)	6.5 7.30	7.2	7.1 7.60	9.2
LABORATORY DATA				•
COLOR (PT-CO UNITS) TURBIDITY, MACH TURBIDIMETER (FTU) TCTAL FILTERABLE RESIDUE (MG/L)	30.00 75.	65. 24.00 86.	35. 6.50 68.	15. 4.20
TOTAL NONFILTERABLE RESIDUE (MG/L)	< 10.	12.	< 10.	< 10.
CHEMICAL DATA				
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, DISSOLVED (MG \$04/L) SULFIDE, TOTAL (MG \$/L)	25. 6. < 0.1	22. 6. < 0.1	50. 2. < 0.1	34. < 1. < 0.1
IRON. DISSCLVED (UG FE/L) IRON. TOTAL (UG FE/L) MANGANESE. DISSCLVED (UG MN/L)	332 1410 < 50	25) 143) < 50	190 620 < 50	50 140 < 50
MANGANESE, TOTAL (UG MN/L) Zinc. Tutal (UG ZN/L)	. 50 50	50 50	< 50 10	150 10
NUTRIENTS	•	•	•	•
CARBON. DIESOLVED ORGANIC (MG C/L) CARBON. TOTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	< 10.	10.	7. 8. 2.4	< 12. 9. 0.1
NITFOGEN, TOTAL AMMONIA (MG N/L) NITFOGEN, HITFATE+NITFITE (MG N/L) NITFOGEN, TOTAL INORGANIC (MG N/L)	0.04 0.34 0.38	0.05 0.27 0.32	0.05 0.36 0.42	0.03 <0.01 <0.04
ORTHOPHOSPHATE: DISSCLUED (MG P/L) PHOSPHORUS: TOTAL (MG P/L)	<0.01	<0.01 0.10	<2.01 2.09	<0.01 0.02

TABLE D-2d

PARAMETER HAME (UNITS)	STATION 13 6/5/78	STATION 14 6/ 5/78	STATION 15 6/ 5/78	574710H 15 6/ 5/78
PHYSICAL DATA				
MISCELLANE CUS DATA				
X-SECTION LOC (XFROM F+BK LK UPST) SAMPLE DEPTH (METERS)	30. 1.)	50. 1.7	50. 1.0	50. 1.0
FIELD MEASUREMENTS				
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE: FLD (UMHO/CM 25C) GXIDATION PEDUCTION POTENTIAL (MV)	28.0 147. 340	26.9 195.	27.0 135. 410	26.0 130.
DISSOLVED DXYGEN. FLECTRODE (MG/L) PH (STD UNITS)	9.0 5.00	8.6 7.93	9.4 7.80	7.0 7.30
LABORATORY DATA	:			•
CCLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	31. 4.30 94.	16. 3.00 121.	36. 6.90 95.	44. 5.00
TOTAL NONFILTERABLE RESIDUE (MG/L)	14.	12.	12.	12.
CHEMICAL DATA				
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACC3/L) SULFATE, DISSCLVED (MG SO4/L) SULFIDE, TCTAL (MG S/L)	61.	93. < 1. < 0.1	55. 2. < 0.1	54. 2. < 0.1
IFON. DISSOLVED (UG FE/L) FIREN. TOTAL (UG FE/L) MANGANESE. DISSOLVED (UG MN/L)	90 350 < 50	90 160 < 50	150 740 < 50	260 950 < 50
MANGANESE: TOTAL (UG MN/L) Zinc. Total (UG ZN/L)	< 50 20	< 50 10	50 30	< 50 50
NUTRIENTS				
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) CARBON DIDXIDE (MG CO2/L)	7. 6. 1. i	< 9. 8. 2.3	6. 7. 1.7	6. 5. 5.2
NITROGEN. TOTAL AMMONIA (MG N/L) PINITROGEN. NITRATE+NITRITE (MG N/L) PINITROGEN. TOTAL INCRGAVIC (MG N/L)	0.05 0.26 0.31	0.03 0.42 0.45	0.03 0.45 0.48	0.11 0.54 0.75
ORTHOPHOSPHATE: DISSCLVED (MG P/L) PHCSPHORUS: TOTAL (MG P/L)	<0.01 0.07	0.01 0.04	<0.01 0.10	0.05 0.13

TABLE D-2e

PARAMETER NAME (UNITS)	STATION 17 6/ 5/78	PCITATE SI 87\8 \¢	STATION 19 5/ 6/78
PHYSICAL DATA	•		•
MISCELLANCOUS DATA			
X-SECTION LCC (XFRCM R-BK LK UPST) SAMPLE DEPTH (METERS)	50.	5). 1.)	50. 1.3
FIELD MEASUREMENTS			
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLO (UMHO/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	25.0	26.0 130.	2C.0 121.
DISSOLVED DXYGEN, ELECTRODE (MG/L) PH (STD UNITS)	7.30	7.3 7.5)	5•1 7•40
LABORATORY DATA			
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	50 6.50 93	35. 21.00	55. 17.00 93.
TOTAL NONFILTERABLE RESIDUE (MG/L)	17.	14.	< 10.
CHEMICAL DATA			
MINERALS AND METALS	•	·	
ALKALINITY. TOTAL (MG CACO3/L) SULFATE: DISSULVED (MG SO4/L) SULFIDE: TOTAL (MG S/L)	49. 2 < 0.1	42. < 0.i	45. 4. < 0.1
IPON. DISSCLVED (UG FE/L) IFON. TSTAL (UG FE/L) MANGANESE, DISSOLVED (UG MN/L)	413 1090 < 50	140 1200 < 50	140 1310 < 50
MANGANESE, TOTAL (UG MN/L) ZINC, TOTAL (UG ZN/L)	< 50	90 40	120 40
NUTRIENTS			
CARBON, DISSCLVED TRGANIC (MG C/L) CARBON, TOTAL OFGANIC (MG C/L) CARBON DIOXIDE (MG COZ/L)	< 6.	5. 6. 2.5	6. 8. 3. 4
, NITROGEN. TOTAL AMMONIA (MG N/L) NITROGEN. NITPATE NITA ITE (MG N/L) NITROGEN. TOTAL INCRGANIC (MG N/L)	0.09 0.58 0.67	0.13 0.31 0.41	0.11 3.39 3.41
DISSULVED (MG P/L) PHOSPHOPUS, TOTAL (MG P/L)	0.06	0.15 <0.01	<0.01 0.19

TABLE D-3a

#PORTS (FOUND) | CONTRACT DACKET-FOR DUBLIC TO BRANCE TO SERVICE TO BE SERVICED.

Grab Samples

עם עם	Sampres			
י אגע פידדיה אַגאד (פונע) אַ אַר אַר אַר אַר אַר אַר אַר אַר אַר	STATE 'N - 71 - 7/1 /74	STATE 141 02 7/1 //73	0.5	• 0. •
PHYSICAL DATA	•			,
• STROULLANYOUS DATA				
X-DICTION ENG (MELOM H-BK EK UPDT) CANELI DISTH (MITTIA)	≗J. 1•)	50. 1.,	50. 1.7	50. 1.)
FILES MACUFEMENTS				
• WATER THANEGATION (CON C) • SHOC COMMUTANES, FED (UNMOVER SED) • CATATION -FOLITION FOR TENTIAL (VV)	24.0	28.9 67.	27.0 67.	26.5 75.
DISSOLVED CAYGEN. BL.CTRODE (MG/L) PH (STD UNITS)	9.3 7.35	7.5 7.50	# ₀ 5/ 7 ₀ 30	7.70
LABORITORY DATA				
• CELOR (PT-CO UNITS) • TURBILITY• HACH TURBILIMETER (FTU) • TOTAL FILTERABLE RESIDUE (MG/L)	30. 7.30	30. 4.50 48.	30. 11.30 45.	12.03 12.03
TOTAL NONFILTEFABLE RESIDUE (MG/L)	< 12.	< 10.	15.	27.
CHEMICAL DATA	•	•		
MINERALS AND METALS	•	•	•	
 ABKALINITY, TOTAL (MG CACCOVE) SULFATE, DISSOLVIO (MG SOHVL) SULFIDE, TOTAL (MG SVL) 	17. 5. < 0.1	17.	17. 5. < 3.1	2)• < 0•1
· IFON, DISSCLVED (UG FEZL) · IFON, TOTAL (UG FEZL) · MANGANESC, DISSOLVED (UG MNZL)	50 690 < 50	< 50 673 < 50	60 ■80 < 50	50 950 120
MANGAMESE, TOTAL (UG MNZL) ZING, TOTAL (UG ZNZL)	150 20	13) 50	187 3 0	22.7 7.3
NUTRITATS		:	•	:
CARBON, DISSOLVED DEGANIC (MG CZE) CARBON, TOTAL DEGANIC (MG CZE) CARDON DISSIDE (MG COZZE)	7. 7. 1.4	5. 6. 0.2	6. 6. 0.9	5. 6. 0.7
* NITHOGEN, TOTAL AMPONIA (MG M/L) * NITHOGEN, NITHATE-KITHITE (MG N/L) * KITHOGEN, TET/L INCEGANIS (MG M/L)	0.15	3.06 0.11 0.17	0.05 0.10 0.15	0.35 0.39 0.14
* CATHODHOSOHATO, DIESOLVED (MG PZL) * PROSPHOJOUS, TOTAL (MG PZL)	0.05	0.01	<0.01 0.00	<0.01 0.17

TABLE D-3b

RIGHAUSTER NAME (UNITS)	* STATION ** * 7/1:/7*	5737[14 0- 7/23/74	5737171 37 7753773	3747[DH:
PHYSICAL DATA	•		,	,
MISCELLANT DUS DATA	:			:
XHSECTION LOG (MEROM HERK LK UPST) MANDEL DEPTH (MITTES)	53.	5). 1•)	50. Le:	*)•
FIELD MEARUPEMENTS				
WATER TEMPERATURE (DLG C) SPEC CONDUCTANCE: FED (UMMCZCM 25C) GRIDATION REDUCTION POTENTIAL (MV)	25.4 70.	28.0 77.	25.0 33. 410	23.9 403
DISSOLVED DAYGEN. ELECTRODE (MG/L) PH (STC UNITS)	7.53	6.3 7.1)	7.2 7.23	5.3 7.20
LABORATORY DATA				
CCLOR (PT-CO UNITS) TURSICITY, HACH TURSICIMETER (FTU) TCTAL FILTFFABLE RESIDUE (MG/L)	22.03	53. 17.00 65.	39. 5.50 63.	37. 7.40 60.
TOTAL NONFILTERABLE RESIDUE (MG/L)	27.	< 10.	< 10.	< 10.
CHEMICAL DATA		,		
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACODZE) SULFATO, DISSOLVED (MG SO4ZE) SULFIDE, TOTAL (MG SZE)	19. 7. < 0.1	21. 5. < 0.1	23. 7. < 0.1	24. 7 4 0.1
IFON, DISSCLVED (UG FEZL) IFON, TOTAL (UG FEZL) MANGANESC, DISSOLVED (UG MNZL)	60 1140 < 50	70 653 < 50	(0 390 < 5)	500 500 < 50
MANGANESE, TUTAL (UG MNZL) ZING. TOTAL (UG ZNZL)	130	70 30	100	100 30
NUTRIENTS	•			
CARRON. DISSCLVAD DEGAMIC (MG CAL) CARBON. TOTAL DEGANIC (MG CAL) CARBON DIDXIDE (MG CO2AL)	6.	< 6. 5. 3.1	< 6. 5. 2.7	5. 2.9
* NITEDGEN, TOTAL AMNORIA (MG MZL) * NITEDGEN, TOTAL AMNORIA (MG MZL) * NITEDGEN, TOTAL INCREANIC (MG MZL)		0.05 0.11 0.17	0.0% 0.17 0.23	0.05 3.15 3.21
• OFTHORMOSPHATT, DISSELVED (PG PZL) • PECSPHORUS, TOTAL (MG PZL) •	<0.01 0.17	<0.3	<0.01 0.24	<0.31 0.25

TABLE D-3c

PARAVETID NAME (UNITS)	STATION: 1	່ ດີ ເ	3717171 00 7/10/75	1 17 1
MYSICAL DATA				
MICCELLANI DUS DATA				
XHITCTITU LOC (MELOM RHUK LK UPUT) SAMPLE (FRIH (METERS)	₹0. 1.0	50. 1.,	50. 4.9	5). 1.0
FILLO VEASUREZENTS				
*ATTR TEMPORATURE (DES C) SPEC CONDUCTANCE: FLE (UMMINEM 250) DRICATION REDUCTION PETENTIAL (NV)	25.5 64. 350	21.3 90. 413	20.0 32.	30.3 90. 370
DISSOLVED CXYGEN, ELECTRODE (MG/L) PH (STO UNITS)	7.4 7.33	7.93	5•9 	4.5 4.37
LAGGRATHE VALLA				
* COLOR (PT-CO UNITS) * TURBIDITY, HACH TURBIDIMETER (FTU) * TOTAL FILTERABLE RESIDUE (MG/L)	50. 7.43 53.	6.43 53.	50. 7.70 52.	47. 7.50 54.
TOTAL NONFILTERABLE FESTOUL (MGZL)	11.	12.	21.	< 17.
CHEMICAL DATA				
MILERALS AND METALS				
ALKALINITY, TOTAL (MG CACOBYL) SULFATE, DISSOLVED (MG 5047L) SULFICE, TOTAL (MG SYL)	25. < 0.1	29. 7. < 0.1	25. < 0.1	25. < 3.1
IFON, DISSCLVED (UG FEZE) IFON, TOTAL (UC FEZE) MANGAMESE, DISSCLVED (UG MNZL)	90 630 < 50	100 350 < 50	100 900 < 50	90 630 < 50
MANGANESE: TOTAL (US MNZL) ZING: TOTAL (UG ZNZL)	120 60	129 20	140 10	100 30
NUTRIENTS	•	•		
CARRON, DISSOLVED OFGANIC (46 C/L) CARRON, TOTAL OFGANIC (MG C/L) CARDON DIOXIDE (MG COZ/L)	5. 5. 2.5	7. 0.7	6. 7. 2.3	7. 7. 2.5
HITTOGEN. TOTAL AMMONIA (MG MIL) NITHOGEN. MITHATE+MITRITE (MG NIL) NITHOGEN. TOTAL INCEGAMIC (MG NIL)	0.12 0.11 0.23	0.02 0.03	0.05 0.06 0.10	0.13 0.32 0.35
PERCENTAGE (MG PZE)	0.Ji 0.U5	< 7. 31 3. 13	<0.01 0.04	0.71 0.15
	i 		·	

TABLE D-3d

ρλ≂ΔνετοΓ 3.4 ν ε (UNITS)	STAT! 04 11 7/1-/73		7/1//7/	13 '
PHYSICAL DAYA		•		
ATAC BURNINGS IN	•	•		•
X-SECTION LOC (STOCH FESK EK UPST) SAMPLE DEPTH (METERS)	10. 1.0	30. 5.)	>0.	37.
FIELD MEASUREMENTS		•	•	•
WATER TEMPTRATURE (DEG C) SPEC GINDUCTANCE, FE' (UMHTYCH 25C) SKIDATION EDUCTION PRITATIAL (MV)	30.0 123. 359	29.) 102. 37)	32.0 90.	31.) 157. 319
DISSULVED DXYGRN. ELECTRUDE (4G/L)	5.33 5.33	3.3 7.50	7.90	3.40 3.40
LABORATURY DATA		•		
COLOP (PT-CO UNITS) - TURBURTY HACH TURRIDIMETER (FTU) - TOTAL FILTERAPLE RESIDUE (MOZL)	20. 4.63 68.	63. 9.43 64.	0.80 Se-	2-40 63.
. TOTAL NONFILTERABLE RESIDUE (MG/L)	< 10.	13.	13.	< 10.
GHEMICAL DATA	•	•		
MINERALS AND METALS		•		
• ALKALINITY, TOTAL (MG CACOBAL) • SULFATE, DISSOLVED (MG 504AL) • SULFIDE, TOTAL:(MG SAL)	49. 3. < 0.1	33. 5. < 0.1	32. < 1. < 0.1	62. 2. < 3.1
IPON, DISSCLVEC (UG FEZE) IFON, TOTAL (UG FEZE) MANGANESE, DISSOLVED (UG MNZL)	540 540 5 50	70 670 63	< 50 60 < 50	< 50 200 < 50
MANGANISE, TOTAL (UG MNZL) ZINC, TOTAL (UG ZNZL)	93	122	< 50 160	< 59 40
NUTRICATS		•	•	:
CARBON, DISSCEVED OFGANIC (MG CZE) CARBON, TOTAL OFGANIC (MG CZE) CARBON DINYIDE (MG COZZE)	5. 5. 0.5	4. 5. 1.9	6. 7. 0.7	6. 6. 0.2
* NITENGEN, TOTAL ANYONIA (MU NZE) * NITHUGEN, NITEATERNITE(TE (MU NZE) * NITHUGEN, YOTAL INCEGANIC (MU NZE)	0.04 0.02 0.12	0.0- 0.0- 0.0- 0.13	0.04 <0.01 <0.05	0.37 0.13 0.23
COTHORNOSCHATT, DISSOLVED (MG PZE) F RECORNORUS, TOTAL (MG PZE)	<0.01 2.22	<0.01 0.14	0.01	<0.01 0.50
•	(1	·

TABLE D-3e

 PARAJISTES NAME (IMITE) 	ATI N 13 71775	14	574*1*1 1* 7/17/7;	• 1
PHYSICAL DATA				
MISCELLANDOUS DATA				
XHINCTION LIG ((FROM FHEK LK UPST) CAMPLI CENTH (CITTERS)	%3. 6.0	50. 1.√	50. 1.3	-3. 3
FIGUR MEASURSMUNTS			'	
* WATER TIMPLEATURE (DEG C) * SPEC CONDUCTABLES, FED (UMHOROM 250) * OXIDATION REPUBLIC POTENTIAL (MV)	2°.0 1'0. 340	26.1 255.	31.0 153. 300	21.5 1.5. 382
DISCOLVED DXYGEN, ELECTRODE (MG/L) PH (STO UNITS)	3.7	9.0 7.90	9.0 9.60	3.5 7.20
LABCRATORY DATA				
* CCLCH (PT-CO UNITS) * TURNIDITY: HACH TURNIDIMETER (FTU) * * TOTAL FILTERABLE RESIDUE (MG/L)	a.30 e1.	14. 2.47 102.	20. 3.00	17. 5.50 102.
TOTAL NONFILTERABLE RESIDUE (MG/L)	14.	< 10.	< 10.	10.
CHEMICAL DATA				
MINERALS AND METALS				
ALKALIMITY, TOTAL (MG CACC3/L) GULFATC, DISSOLVED (MG SD4/L) SULFIDE, TOTAL (MG S/L)	2.	91. < 1. < 0.1	63. 2. < 0.1	63. 3. < 0.1
IFON: DISSELVED (US FEZE) IFON: TOTAL (UG FEZE) MARGANESE: DISSULVED (UG MNZL)	50 780 90	く 50 150 く 50	< 50 80 < 50	< 50 420 < 50
VANGAUTSE, TOTAL (UG MN/L) ZINC. TOTAL (UG ZN/L)	210	< 50 20	175 20	120 20
NUTRIENTS				
CARRON, DISSOLVED DREAMIC (MG CZL) CARRON, TOTAL DEGANIC (MG CZL) CARBON DIDXIDE (MG COZZL)	4.	5. 5. 2.1	4. 7. 0.3	4. 4. 1.5
· Bittograf NiteAte+uit it- (Mi UZL) ·	0.16 0.25 01	0.35 0.54 0.63	0.07 0.24 0.31	0.05 0.14 09
	2.21	<0.31 0.31	<>>-21	2.21 2.75

TABLE D-3f

 	5747100 (1- 7/17/73 (17 (57171771 16 7/17/73	5747174 7/12/72
PHYSICAL DATA				
MISCELLANDOUS DATA				
X=SICTION LOG (KERUN RESK EK UPST) GAMPET DEPTH (MITGES)	1.0	50. 1.)	50. 1.0	50. 1.7
FIULD ACASUFUMENTS				
• WATER TEMPHRATURE (AND C) • SPEC CONDUCTANCE, FLD (UMHONOM 250) • DRIDATION REDUCTION POTENTIAL (AV)	27.0 142.	27.0 135.	27.0 120.	23.0 120.
DISSOLVED CXYGEN, SLECTRODE (4G/L)	7.2 7.70	7.2 7.60	6.3 7.60	5.5 7.3)
* LABORATORY DATA				
* CCLOR (PT-CC UNITS) * TUFFIDITY* HACH TUFFIDIMETER (FTU) * TOTAL FILTEFABLE FESIDUE (MG/L)	21. 3.60	24. 4.30 88.	37. 7.50 71.	37. 9.47 94.
TOTAL NONFILTERABLE RESIDUE (MG/L)	< 10.	< 10.	10.	13.
CHEMICAL DATA	•			
MINERALS AND METALS				
• ALKALINITY, TOTAL (MG CACC3/L) • SULFATE, DISSOLVED (MG SD4/L) • SULFIDE, TUTAL (MG S/L)	57. 1. < 0.1	50. 2. < 0.1	43. 7. 4 0. i	37. < 0.1
. JPDN, DISSCLVED (UG FE/L) . IFON, TOTAL (UG FE/L) . MANGANESE, DISSOLVED (UG MN/L)	60 463 < 50	73 513 < 50	< 50 680 < 50	< 50 960 < 50
MANGANESE, TOTAL (UG MN/L) ZINC, TUTAL (UG ZN/L)	< รูง 30	< 50 30	160 10	170 30
NUTPIENTS				
* CARBON, DISSOLVED OPGANIC (MG CVL) * CARBON, TOTAL OPGANIC (MG CVL) * CARBON DIGNIUS (MG CO2/L)	4. 2.2	4. 5. 2.7	5. 5. 2.0	4. 5. 3.5
* NITROGEN, TOTAL AMMONIA (NG WE) * NITROGEN, HYTEATENMITRITE (4) N/L) * NITROGEN, TOTAL INORGANIC (MG N/L)	0.05 0.57 0.62	0.05 0.52 0.17	0.00 0.13 0.21	0.10 0.14 0.74
* CETT TRHOSPHATT, DISSULVED (MG PVL) * FEOSPHORUS, TOTAL (MG PVL)	0.03	0.74 3.12	<0.01 0.07	<0.31 2.21

TABLE D-4a

** LAKE SEMINDLE WATER QUALITY MANAGEMENT STUDY ** CORPS OF ENGINCERS (CONTRACT DACEJI-78-C-0101) PHASE 1. CYCLE 4

WATER QUALITY SAMPLING RESULTS

Gra	h	San	ກຕໄ	PS

: U I I U	Juliip 1 63			
PARAMETER NAME (UNITS)	STATICN 01 01 01 01 01 01 01 01 01 01 01 01 01	37 AT LON 62 9/17/73	57 AT Int. 23 8/17/79	STATION 74 74 74 74 74 74 74 74 74 74 74 74 74
PHYSICAL DATA				
MISCELLANECUS DATA				
X-SECTION LOC (XFROM R-OK LK UPST) SAVOLE DEPTH (METERS)	50. 1.0	50. 1.0	50. 1.0	50. 1.5
FIELD MEASUREMENTS	•			
WATER TEMPERATURE (CEG C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C) DXIDATION REDUCTION POTENTIAL (MV)	28.0 75.	28.0 75.	28.0 75.	28.5 90.
DISSOLVED DXYGEN, ELECTRODE (MG/L) PH (STD UNITS)	7.0 6.90	7.5 7.10	7.8 7.10	7.1 7.10
LABORATORY DATA	•	•		;
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMFTER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	47. 6.50 59.	55. 5.50 46.	50. 5.53 42.	55. 5.60 55.
TOTAL NONFILTERABLE RESIDUE (MG/L)	14.	18.	14.	22.
CHEMICAL DATA		•		
MINERALS AND METALS				:
ALKALINITY, TOTAL (MG CACO3/L) CHLORIDE (MG CL/L) SULFATE, DISSCLVEC (MG SO4/L)	18. 4. 5.	17.	17. 4. 5.	20. 4. 8.
SULFIDE, TOTAL (MG S/L) CALCIUM, TOTAL (MG CA/L) HARDNESS, TOTAL (MG CACO3/L)	< 0.1 4.1 21.9	< 0.1 6.0 27.3	< 0.1 5.1 23.6	< 0.1 6.7 30.9
IPON, DISCOLVED (UG FEZL) IRON, TOTAL (UG FEZL) MAGNESIUM, TOTAL (MG MGZL)	90 780 2.8	90 950 3.0	< 50 860 2.6	50 970 3.9
MANGANESE DISSOLVED (UG MN/L) MANGANESE TOTAL (UG MN/L) POTASSIUM TOTAL (MG K/L)	< 50 130 1.6	< 50 140 1.6	< 50 120 1.6	< 50 150 1.6
SCRIUM, TOTAL (MG NA/L) ZINC, TOTAL (US ZN/L)	4.37	20	4.37 70	5.93 20
NUTRICHTS	•	•	•	•
CAPBON DISSOLVED ERGANIC (MG CZL) CAPBON TOTAL OPGANIC (MG CZL) CARSON DICKIDE (MG CDZZL)	< A. 5. 4.2	5. 5. 2.5	< 8. 5. 2.5	7. 7. 2.9
NITROGEN, TOTAL AMMONIA (MG NZL) NITROGEN, NITRATE#NITRITE (MG NZL) NITROGEN, TOTAL INORGANIC (MG NZL)	0.07	0 • 1 0 • 0 • 1 4 • 0 • 2 4	0.11 0.12 0.23	0.69 0.11 0.20
* NITROGEN. TOTAL KJELDAHL (MG NZL) * NITEOGEN. TOTAL ORGANIC (MG NZL) * NITEOGEN. TOTAL (MG NZL)	0.5 0.4 0.6	0.5 0.4 0.6	0.5 0.4 0.6	0.5 0.4 0.6
PROSPHORUS, TOTAL (MG PZL)	<0.21 0.35	<3.01 0.05	<0.01 0.05	0.01 0.05
	-	•		

TABLE D-4b

PAPAMETER NAME (UNITS)	STATION 05 5/17/72	37ATIUN 07 8/17/78	STATION 9 97 8/16/79	STATION 07 8/16/79
PHYSECAL DATA				
MISCELLANERUS DATA				
X-SECTION LOC (XFROM R-BK LK UPST) Sample Depth (Meters)	50. 1.5	50. 1.3	20. 1.7	60. 7.0
FIELD MEASUREMENTS				
SPEC CONDUCTANCE, FLD (UMBOZEM 25C) DXIDATION PEDUCTION POTENTIAL (MV)	29.0 83.	29.0 65.	29.0 90. 380	20.0 90. 380
DISSOLVED DXYGEN, ELECTRODE (MG/L) PH (STD UNITS)	7.0 7.15	6.9 7.20	7.0 7.20	6.7 7.05
LABORATORY DATA	•			
CCLOR (PT-CO UNITS) TURBICITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	55. 9.30 47.	50. 5.40 52.	55. 13.00 70.	50. 16.00 75.
TOTAL NONFILTERABLE RESIDUE (MG/L)	19.	17.	16.	
CHEMICAL DATA				
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACOS/L) CHEORIDE (MG CL/L) SULFATE, DISSOLVED (MG SD4/L)	20. 4. 7.	21. 4. 6.	21. 4. 6.	22. 4. 6.
SULFIDE, TOTAL (MG S/L) CALCIUM, TOTAL (MG CA/L) HARDNESS, TOTAL (MG CACO3/L)	< 0.1 4.3 27.8	< 0.1 4.3 14.7	< 0.1 7.4 28.6	< 0.1 7.9 30.3
IRON. DISSOLVED (UG FEZL) IRON. TOTAL (UG FEZL) MAGNESIUM. TOTAL (MG MGZL)	< 50 1110 4.1	< 50 1000 1.0	140 930 2.5	120 2120 2.6
MANGANESE, DISSCLVEC (UG MN/L) MANGANESE, TOTAL (UG MN/L) PCTASSIUM, TCTAL (MG K/L)	< 50 160 1.6	< 50 130 1.7	< 50 80 1.6	< 50 90 1.4
SODIUM. TOTAL (MG NAVL) Zinc, total (UG ZNVL)	5.23 10	5.07 10	5.07 10	5.20 10
NUTRIENTS	•	•	•	: :
EARRON, DISSOLVED OPGANIC (MG CZL) CARBON, TOTAL ORGANIC (MG CZL) CARBON DIOXIDE (MG COZZL)	< 6. 5. 2.9	5. 6. 2.5	< 7. 6. 2.5	< 7. 6. 2.4
NITROGEN, TOTAL AMMONIA (MG N/L) MITROGEN, MITRATE+NITRITE (MG N/L) NITROGEN, TOTAL INDRGANIC (MG N/L)	0.26 0.11 0.17	0.05 0.30 0.35	0.05 0.18 0.23	0.04 0.16 0.20
NITROGEN, TOTAL KJELDAML (MG N/L) NITROGEN, TOTAL ORGANIC (MG N/L) NITROGEN, TOTAL (MG N/L)	0.5	0.6 0.6 0.9	0.5 0.5 0.7	0.5 0.5 0.7
PROPRIESPHATE, DISSELVED (MG PZL) PROSPHERUS, TETAL (MG PZL)	0. 33 0. 35	0.01	0.02 0.05	<0.01 0.05
) ***	·			;

TABLE D-4c

PAHAMETER NAME (UNITS)	STATICN 09 8/16/78	3TATION 09 3/16/78	3TATICH 39 8/16/78	STATION 10 10 9/15/73
PHYSICAL DATA	•			
MISCELLANEOUS DATA				
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	50. 1.0	50. 1.0	50. 6.0	50. 1.0
FIELD MEASUREMENTS				
WATER TEMPERATURE (DEG C) SPEC CENDUCTANCE: FLE (UMHO/CM 2EC) GXIDATION HEDUCTION POTENTIAL (MV)	28.5 85. 440	29.0 85. 410	 	30.0 77.
DISSOLVED CXYGFN, ELECTRODE (MG/L) PH (STD UNITS)	6.6 7.63	7.5 5.00		7.90
LABORATORY DATA	•	•		
CCLCR (PT-CG UNITS) TURBIDITY. HACH TURBIDIMETER (FTU) TOTAL FILTERADLE RESIDUE (MG/L)	60. 16.00	55. 13.00 60.	55. 14.00 65.	48. 15.00 57.
TCTAL NONFILTERABLE RESIDUE (MG/L)	17.	13.	13.	< 10.
CHEMICAL DATA	•			
MINERALS AND METALS	•			
ALKALINITY, TOTAL (MG CACD3/L) CHLORIDE (MG CL/L) SULFATE, DISSULVED (MG SD4/L)	22. 4. 5.	21. 4. 6.	21. 4. 5.	19. 4. 5.
SULFIDE, TOTAL (MG S/L) CALCIUM, TOTAL (MG CA/L) HARDNESS, TOTAL (MG CACO3/L)	< 0.1 4.4 22.9	< 0.1 7.3 29.2	< 0.1 6.6 19.0	< 0.1 5.2 26.0
IRON. DISSOLVED (UG FE/L) IPON. TOTAL (UG FE/L) MAGNESIUM, TOTAL (MG MG/L)	170 733 2.9	140 1230 2.7	180 1210 2.7	80 770 3.2
MANGANESF, DISSCLVED (UG MN/L) MANGANESE, TOTAL (UG MN/L) POTASSIUM, TOTAL (MG K/L)	50 123 1.4	< 50 70 1.4	< 50 90 1.4	< 50 80 1.6
SODIUM. TOTAL (MG NAZL) Zinc, Total (UG ZNZL)	5.20	4.27	3.97 < 10	4.33 < 10
NUTRIENTS	•	•		
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) CARBON DIDXIDE (MG CO2/L)	6. 1.0	4. 5. 0.4	5. 6. 3.0	< 7. 6. 0.4
HITROGEN, IOTAL AMMONIA (MG N/L) NITROGEN, NITRATE+NITRITE (MG N/L) NITRUGEN, TOTAL INORGANIC (MG N/L)	0.07 0.18 0.25	<0.01 0.10 <0.11	0.02 0.14 0.16	0.03 0.03 0.06
NITROGEN, TOTAL KJELDAHL (MG N/L) NITROGEN, TOTAL OPGANIC (MG N/L) NITROGEN, TOTAL (MG N/L)	0.5 0.4 0.7	0.5 > 0.5 0.6	0.5 0.5 0.6	0.5 0.5 0.5
DETHOPHOSPHATE, DISSCLVED (MG PZL) PHOSPHURUS, TOTAL (MG PZL)	<0.31 0.04	0.03	0. 26 <7. 01	3.06 3.01

TABLE D-4d

PAPAMETER NAME (UNITS)	STATION 11 8/16/78	STATION 11 3/16/79	STATION 12 8/15/79	STATION 13 3/14/73
PHYSICAL DATA				
MISCELLANEOUS DATA				
X-STOTION LOC (XFROM P-BK LK UPST) SAMPLE DEPTH (METERS)	20. 1.0	40. 5.0	20. 3.6	30. 1.0
FIELD MEASUREMENTS	•			
• FATER TEMPERATURE (DEG C) • SPEC CUMDUCTANCE. FLD (UMHD/CM 25C) • DXIDATION REDUCTION POTENTIAL (MV)	30.0 14). 330	26.0 130. 360	==	30.7 133. 337
DISSOLVED GXYGEN, ELECTRODE (MG/L) H (SID UNITS)	9.10	6.8 7.80		10.4 9.00
LABORATORY DATA	•	,	•	•
* COLOR (PT-CD UNITS) * TURBIDITY: HACH TURBIDIMETER (FTU) * TOTAL FILTERABLE RESIDUE (MG/L)	30. 6.50 62.	55. 17.00 60.	17. 0.75 58.	21. 6.30 78.
TOTAL NONFILTERABLE RESIDUE (MG/L)	< 10.	< 10.	< 10.	< 10.
CHEMICAL DATA	•		•	
MINEFALS AND METALS	•			
ALKALINITY, TOTAL (MG CACO3/L) CHLORIDE (MG CL/L) SULFATE, DISSCLVED (MG SO4/L)	29. 4. 5.	20. 4. 5.	32. 3. < 1.	45. 4. 2.
SULFIDE. TOTAL (MG S/L) CALCIUM. TOTAL (MG CA/L) HARDNESS, TOTAL (MG CACN3/L)	< 0.1 5.2 22.9	< 0.1 5.0 23.4	< 0.1 9.6 24.6	< 0.1 10.9 41.4
IRCN, DISSOLVED (UG FEZL) IRCN, TOTAL (UG FEZL) MAGNESIUM, TOTAL (MG MGZL)	70 420 2.4	120 1220 2.7	< 50 90 0•?	< 50 220 3.5
MANGANESE, DISSOLVED (UG MN/L) MANGANESE, TOTAL (UG MN/L) POTASSIUM, TOTAL (MG K/L)	< 50 < 50 1.3	< 50 180 1.6	< 50 < 50 < 0.1	< 50 < 50 0.9
SUDIUM, TOTAL (MG NAVL) ZINC, TOTAL (UG ZNVL)	4.00	4 - 4 7	1.15 < 10	3.13 10
NUTRIENTS	•	•	:	•
CARBON: DISSULVED DEGANIC (MG C/L) CARBON: TOTAL DRGANIC (MG C/L) CARBON DIGXIDE (MG CG2/L)	6 · 7 · < 0 · 1	6. 7. 0.£	< 2. 7. 2.3	< д. 7. < 0.1
* NITROGEN. TOTAL AMMENIA (MS NZL) * NITROGEN. NITRATE-NITRITE (MG NZL) * NITROGEN. TOTAL INCREANIC (MG NZL)	<0.01 0.09 1.13	<0.01 0.12 <0.13	0.01 <0.01 <0.02	<0.01 0.14 0.14
NITROGEN, TOTAL KJELDAHL ('MG N/L) NITROGEN, TOTAL ORGANIC (MG N/L) NITROGEN, TOTAL (MG N/L)	0.5 > 0.5 0.6	0.3 > 0.3 0.4	0.4 5.4 < 0.4	0.6 > 0.6 0.7
CPHOPHOSPHATE, DISSCLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	<0.01 0.05	0.01 0.05	<0.01 0.03	0.02 3.05

TABLE D-4e

PARAMETER NAME (UNITS)	STATION 13 9/14/7?	STATIUN 14 8/15/78	5T1T13H 15 8/14/79	STATION 15 9/14/79
PHYSICAL DATA				
MISCELLANEOUS DATA				
X-SECTION LOC (XFFCM P-3K LK UPST) SAMPLE DEPTH (MFTERS)	37. 4.0	50. 1.0	15. 1.3	50. 7.0
FIELD MEASUREMENTS				
WATER TEMPERATURE (DEG C) SPEC CONTUCTANCE, FLD (UMHOZCM 250) DXIDATION REDUCTION POTENTIAL (MV)	2°.0 130. 340	27.5 127.	30.0 133. 30.0	26.9 133. 380
DISSOLVED OXYGEN. ELECTRODE (MG/L) PH (STD UNITS)	7.6 8.27	5.5 7.03	10.3 9.00	6.4 7.40
LABORATORY DATA	•	•) }
COURT (PT-CO UNITS) TURBIDITY, HACH TUPBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	21. 3.50 76.	90. 17.00 94.	36. 16.00 71.	36. 11.00 74.
TOTAL NONFILTERABLE RESIDUE (MG/L)	< 10.	< 10.	< 10.	14.
CHEMICAL DATA				
MINERALS AND METALS				•
ALKALINITY, TOTAL (MG CACODYL) CHUCRIDE (MG CLVL) SULFATE, DISSULVED (MG SOAVL)	46. 1.	48. 4. 3.	40. < 1.	42. 4. 2.
SULFIDE, TOTAL (MG S/L) - CALCIUM, TGTAL (MG CA/L) - MARDNESS, TOTAL (MG CACO3/L)	< 0.1 11.6 43.5	< 0.1 13.7 39.4	< 0.1 10.8 57.8	< 0.1 10.4 56.1
IRON. DISSOLVED (UG FEZL) IRON. TOTAL (UG FEZL) MAGNESIUM. TOTAL (MG MGZL)	< 50 400 3.6	200 730 1•2	90 48û 7.5	120 1393 7.3
MANGANESE, DISSOLVED (UG MN/L) MANGANESE, TOTAL (UG MN/L) POTASSIUM, TOTAL (MG K/L)	< 50 < 50 0.9	< 50 < 50 0.6	< 50 60 1.1	< 50 90 1.1
SODIUM, TOTAL (MG NAZL) ZINC, TOTAL (UG ZNZL)	3. 07 30	1.45 < 10	3.27 10	3.27 < 10
NUTRIENTS	•		•))
CARRON, DISSOLVED ORGANIC (MG CZL) CARRON, TOTAL ORGANIC (MG CZL) CARRON DINXIDE (MG COZZL)	6. 0.5	< 5. 3. 9.1	6. 7. < 2.1	7. 7. 3.1
HITFOGEN, TOTAL AMMONTA (MS NZL) HITPOGEN, HITPATF+NITMITE (MS NZL) HITPOGEN, TOTAL INCRGANIC (MG NZL)	0.03 0.23 0.26	0.03 0.07 0.10	<0.01 0.37 <0.33	0.04 0.42 0.46
NITHOGEN, TOTAL KJELDAHL (4G N/L) NITPOGEN, TOTAL ORGANIC (4G N/L) NITPOGEN, TOTAL (4G N/L)	0.5 0.5 0.7	0.5 0.5 0.6	2.7 > 0.7 1.1	0.4 0.4 9.9
CRINCANDSPHATE, DISSELVED (MG PZL) PHOSPHORUS, TOTAL (MG PZL)	<0.01 0.04	<0.01 0.04	0.02 0.07	0.03 0.07

TABLE D-4f

PARAMETER NAME (UNITS)	STATION 1	STATION	STATION	STATION
PARAMETER NAME (UNITS)	4/14/78	6/14/73	9/16/79	9/16/73
PHYSICAL DATA				
MISCELLANEOUS DATA				
X-SECTION LOC (XFROM P-BK LK UPST) SAMPLE DEPTH (METERS)	50. 1.0	50. 1.0	50. 1.3	50. 1.0
FIELD MEASUREMENTS		•	•	
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	26.0 90.	28.0 50.	29.0 105.	29.0 115.
DISSOLVED DXYGEN, ELECTRODE (MG/L) PH (STD W/ITS)	6.8 7.40	6.4 6.90	8.0 7.50	7.5 7.10
LADCRATORY DATA	•		•	:
COLOR (PT-CO UNITS) TURBICITY, HACH TURBICIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	60. 12.30 63.	60. 11.00 68.	32. 10.60 68.	30. 8.60 57.
TOTAL NONFILTERABLE RESIDUF (MG/L)	< 10.	27.	< 10.	10.
CHEMICAL DATA				
MINERALS AND METALS			· •	
ALKALINITY, TOTAL (MG CACO3/L) CHLORIDE (MG CL/L) SULFATE, DISSOLVED (MG S04/L)	25. 4. 3.	25. 4. 2.	33. 4. 5.	38.
SULFIDE, TOTAL (MG S/L) CALCIUM, TOTAL (MG CA/L) HARDNESS, TOTAL (MG CACO3/L)	< 0.1 6.4 22.4	< 0.1 6.2 22.1	< 0.1 13.0 42.8	< 0.1 15.3 49.8
IRON, DISSOLVED (UG FEZL) IRON, TOTAL (UG FEZL) MAGNESIUM, TOTAL (MG MGZL)	< 50 1250 1.6	420 2040 1.6	70 763 2.5	< 50 650 2.8
MANGANESE, DISSCLVEC (UG MN/L) MANGANESE, TCTAL (UG MN/L) PCTASSIUM, TOTAL (MG K/L)	< 50 90 1•1	< 50 260 1.2	< 50 90 1.1	< 50 100 1.1
SODIUM. TOTAL (MG NAZL) ZINC. TOTAL (UG ZNZL)	3.30 20	3.30 36	3.87 13	3.50 20
NUTRIENTS	•	•	•	•
CARBON. DISSOLVED ORGANIC (MG C/L) CARBON. TOTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	8. 8. 1.9	8. 8. 5.8	6. 6. 1.9	5. 5. 5.6
NITROGEN. TOTAL AMMONIA (MG N/L) NITROGEN. NITRATE+NITRITE (MG N/L) NITROGEN. TOTAL INDRGANIC (MG N/L)	0.03 0.29 0.32	0.02 0.28 0.30	0.05 0.04 0.09	0.05 3.17 0.25
NITROGEN, TOTAL KJELDAHL (MG N/L) NITROGEN, TOTAL GRGANIC (MG N/L) NITROGEN, TOTAL (MG N/L)	0.5 0.5 0.8	0.5 0.5 0.8	0.6 0.6	0.6 0.5 0.9
DETHIRPHESCHATE, DISSELVED (MG PZL) PHOSPHERUS, TOTAL (MG PZL)	0.03 0.05	0.03 0.09	<0.01 0.04	<0.01 0.04
			·	

TABLE D-5a

WATER QUALITY SAMPLING PEROLTS Grab Samples

PAPAYSTER NAME (UNITS)	STATION: 01 0/27/79	57471 'Y 57478 574778	57471311 33 972778	57AT109 74 7/27/73
PHYSICAL DAYA				
MISCILLANE OUS BATA				
X-SECTION LOC (MELLM FHER LK UPST) SAMPLE DECTH (MET. SS)	53. 1.0	50. 1.0	50. 1.0	30. 1.0
#13FD WGWENGENER				
* WATER TEMPTRATURE (DEG C) * SPIC CONDUCTANCE, FLD (UNHANCH 250) * CXIDATION REDUCTION POTENTIAL (MV)	27.7 80.	27.5 30.	27.0 20.	24.0 45.
DISSILVED DXYGEN, ELECTRODE (MG/L) PF (STD UNITS)	8+3 7+20	8 . l 7 • 5 3	9.1 7.50	7.50
LAPORATORY DATA				
* COLOR (PTHOD UNITS) * TURBIDITY* HACH TURBIDIMETER (FTU) * TOTAL NONFILTERABLE RESIDUE (MGZL)	4.10 < 10.	5.17 < 10.	3. 6.50 20.	23 3.63 19.
TOTAL FILTERABLE RESIDUE (MG/L)	49.	49.	46.	57.
CHEMICAL DATA				
MINERALS AND METALS				
* ALKALINITY, TOTAL (MG CACHBYL) * BULFATE, DISSOLVED (MG S047L) * IRCH, DISSOLVED (UG FEYL)	10. 7. < 50	19. 7. < 50	20. 6. < 50	25. 9. < 50
* IPCN, TOTAL (UG FEZL) * MANGANGSE, DISSOLVID (UG MNZL) * MANGANESE, TOTAL (UG MNZL)	190 < 50 90	233 < 53 123	440 < 50 190	< 52 180
ZING, TOTAL (UG ZNZL)	30	10	50	10
NUTRIENTS				
CATION, DISSOLVED BROWNER (MG CAL) CAPHON, TOTAL OFGANIC (MG CAL) CAFBUN DIDXICE (FG COZAL)	2.2	7. 10. 1-1	5. 12. 1.2	7. 17.
* NITAGEN, TOTAL ANHONIA (NO NUL) * NITAGEN, NITEATCHRITEIT_ (NO NUL) * NITAGEN, TOTAL INTAGENIC (NA NUL)	<0.01 0.05 <0.07	<0.01 0.07 <0.03	<0.01 0.07 <0.06	0.02 0.07 0.09
* PITEOGRAM TOTAL MUTEDARE (MG MZE) * NITEOGRAM TOTAL GO MZE) * NITEOGRAM TOTAL (MG MZE)	0.5 >0.4 >0.5	> 0 > 0	0•5 > 0•5	0.7 0.7 2.8
* ORTHORHOSPHATO DISCULVOS (MG PZL) * PHOSPHSCUS TOTAL (PO PZL)	<0.01 0.02	<0.01 0.03	<0.01 0.05	<0.01 0.04
				•

TABLE D-5b

PARAMETER NAME (PRITS) STATION 01 07 07 07 07 07 07 07					
# ISCILLAMINUS DATA X HORITICH LOC (\$FEDM APAK LK UPST)	PARAMETER NAME (UNITS)	ب بن •	0:	່ ້າວອີ່ (07
X-SITTION LOC (VERDM A-PK LK UPST) 50. 50. 70. 50. 50. 70. 50. 50. 70. 50. 50. 70. 50. 50. 70. 50. 50. 70. 70. 610. VERSUEL VERTS 70.	PHYSICAL DATA				
### FILLD WINGHOLD (DEN C) #### FILLD WINGHOLD (DEN C) ##### FILLD WINGHOLD (DEN C) ####################################	MISCILLANDOUS DATA				
WATER TEMPSKATUEE (DIG C) 25.0 27.7 27.7 27.0 SPEC COMMITTANCE, FLO (UMMIZED 207) 30. 100. 40. 45. 45. 40. 45. 40. 45. 45. 40. 45. 45. 40. 45. 45. 46.	XHUDOTION LOC (KREIM AHRK EK UPST) SAMPLI LEPTH (HETTAS)				
SPEC CHANGE FREE (UVNEZON 22C)	FICED VERSURE FINTS				
PP (STO UNITS)	- SACC COMORSTANCE: FLC (UMHSZCH 250)!	່ ຈາ.	100.	90.	95.
CCLOR (AT-CO UNITY) TUEBLOITY, MACH TURBIDIMETER (FTU) 7.93 7.33 5.50 7.80 TOTAL NONFILTERABLE RESIDUE (MG/L) 18. 11. 16. TOTAL FILTERAGLE RESIDUE (MG/L) 50. 58. 55. 55. CHEMICAL DATA MINERALS AND METALS ALKSLINITY, TOTAL (MG CACC3/L) 22. 26. 25. 23. 3. 9. 6. 150. 150. 150. 150. 50 < 50 < 50 < 50 < 50 < 50 < 50 < 5					
TUEBIDITY, MACH TURBIDIMETER (FTU) 7.93 7.33 5.50 7.80 TOTAL NONFILTERABLE RESIDUE (MG/L) 50. 58. 55. 55. TOTAL FILTERABLE RESIDUE (MG/L) 50. 58. 55. 55. CHEMICAL DATA MINERALS AND METALS ALKELINITY, TOTAL (MG CACC3/L) 22. 26. 25. 23. 3. 3. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	LABURATORY DATA				
TOTAL NONFILTERABLE RESIDUE (MGZL) TOTAL FILTERABLE RESIDUE (MGZL) CHEMICAL DATA MINERALS AND METALS ALKELINITY, TOTAL (MG CACCGAL) SULFATE, DISSOLVED (MG SDAZL) IRON, DISSOLVED (MG FEZL) MANGANESE, DISSOLVED (MG MAZL) MANGANESE, TOTAL (MG MAZL) ZINC, TOTAL (MG ZNZL) NUTRIENTS CAFBON, DISSOLVED (MG CZZL) NITROGEN, TOTAL (MG COZZL) NITROGEN, TOTAL AMMONIA (MG NZL) NITROGEN, TOTAL AMMONIA (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL)	TUPBIDITY. HACH TURBIDIMETER (FTU)	7.9)	7.33	5.50	7.40
TOTAL FILTERAGLE RESIDUE (MGZL) CHEMICAL DATA MINERALS AND METALS ALKSLINITY, TOTAL (MG CACCGZL) SULFATE, DISSOLVED (MG SDAZL) IRON, DISSOLVED (UG FEZL) MANGANESE, DISSOLVED (UG MNZL) MANGANESE, TOTAL (UG MNZL) MANGANESE, TOTAL (UG MNZL) ZINC, TOTAL (UG ZNZL) NUTRIENTS CAFBON, DISSOLVED OFGANIC (MG CZL) CAFBON, DISSOLVED (MG CZZZL) NITROGEN, TOTAL AMMONIA (MG NZL) NITROGEN, TOTAL AMMONIA (MG NZL) NITROGEN, TOTAL AMMONIA (MG NZL) NITROGEN, TOTAL AMMONIA (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) NITROGEN, TOTAL KJELDAHL (MG NZL) O.6	,	•	•	•	
ALKSLINITY, TOTAL (MG CACCS/L) SULFATE, DISSOLVED (MG SUA/L) IFUN, DISSOLVED (UG FE/L) 10					
SULFATE: DISSOLVED (MG SUAZE) S. S. S. S. S. S. S. S	MINERALS AND METALS	•	•		
MANGANESE, DISSOLVED (UG MN/L) MANGANESE, TOTAL (UG MN/L) ZINC, TOTAL (UG ZN/L) NUTRIENTS CAPBON, DISSOLVED OFGANIC (MG C/L) CAPBON, TOTAL OFGANIC (MG C/L) NITROGIN, TOTAL AMMONIA (MG N/L) NITROGIN, MITTATE NITRITE (MG N/L) NITROGEN, MITTATE (MG N/L) NITROGEN, TOTAL MNCONIC (MG N/L) NITROGEN, TOTAL MNCONIC (MG N/L) NITROGEN, TOTAL MNCONIC (MG N/L) NITROGEN, TOTAL MNCONIC (MG N/L) NITROGEN, TOTAL KJELDAHL (MG N/L) NITROGEN, TOTAL KJELDAHL (MG N/L) NITROGEN, TOTAL KJELDAHL (MG N/L) NITROGEN, TOTAL KJELDAHL (MG N/L) NITROGEN, TOTAL KJELDAHL (MG N/L) NITROGEN, TOTAL KJELDAHL (MG N/L) NITROGEN, TOTAL KJELDAHL (MG N/L) NITROGEN, TOTAL KJELDAHL (MG N/L) NITROGEN, TOTAL KJELDAHL (MG N/L)	SULFATE: DISSOLVED (MG SUAZL)	. 5.	• ā.	• 9.	A.
NUTRIENTS CAFBON, DISSOLVED DEGANIC (MG C/L) CAFBON, TOTAL OFGANIC (MG C/L) CAPBON, DIOXIDE (MG CO2/L) NITROGEN, TOTAL AMMONIA (MG N/L) NITROGEN, MITTEL TECHNITHIE (MG N/L) NITROGEN, TOTAL INCHGANIC (MG N/L) NITROGEN, TOTAL INCHGANIC (MG N/L) NITROGEN, TOTAL INCHGANIC (MG N/L) NITROGEN, TOTAL KJELDAHL (MG N/L) NITROGEN, TOTAL KJELDAHL (MG N/L) NITROGEN, TOTAL KJELDAHL (MG N/L) NITROGEN, TOTAL KJELDAHL (MG N/L) NITROGEN, TOTAL KJELDAHL (MG N/L) NO.5	MANGANESE DISSOLVED (UG MN/L)	• •0	· < 55	، رَچَ •	P AÓ
CAFRON. DISSULVED DEGANIC (MG C/L) 7. 8. 8. 9. CAFRON. TOTAL DEGANIC (MG C/L) 13. 18. 16. 19. CAFRON. DIDXIDE (MG COZ/L) 1.3 1.5 2.0 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	ZINC. TOTAL (UG ZNZL)	30	20	10	20
CAFRON, TOTAL OFGANIC (MG CZL) 13. 18. 16. 19. CAMBON DIOXIDE (MG COZZL) 1.3 1.5 2.0 2.7 NITROGEN, TOTAL AMMONIA (MG NZL) 0.01 0.03 0.02 0.02 NITROGEN, MITCATE NITRITE (MG NZL) 0.07 0.14 0.17 0.12 NITROGEN, TOTAL INCHGANIC (MG NZL) 0.09 0.19 0.19 0.14 NITROGEN, TOTAL KJELDAHL (MG NZL) 0.6 0.4 0.5 0.6	NUTRIENTS	- • •	•	•	
NTTEDGEN: NTTEFTEENTTEITE (NG NZL)	CAFBON, TOTAL DEGANIC (MG C/L)	13.	18.	16.	19.
	NITE OF N. MITCATE + NITE ITE (MG N/L)	• 3. 77	0.1-	0.10	0.12
Nitable i toral (RG N/L)	NITEUSEN, TOTAL KUELDAHL (MG NZL) NITEOSCH, TOTAL DAGAMIC (MG NZL) NITEOSEN, TOTAL (MG NZL)	• 5.5	0.2	2.2	3.4
SRTHERHASPHATT, DISSOLVED (MG PML) <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.00 0.00) - ORTHOPHOSPHATT, DISSCLVID (4G PZL) '	. <3.31			

TABLE D-5c

PARAMETER MANT (UNITE)	57471 % 34 0/20/76	37A7139 39 9/26/79	STATION 00 00 00 00 00 00 00	2747199 10 9226273
PHYSICAL DATA		•		
MISCELLANG DUS DATA				
X-2551109 EUG (XEDOM F-UK EK UPST) SAMPLE DEPTH (METERS)	30 • 1 • 3	50. 1.0	50・ 5・)	50. 3.5
FIELD MEASUREMENTS				
* AATHA TO MARATUHE (DIG C) * SPOO CONDUCTABOR, FEE (U MHOZIM 200) * CXIDATION REDUCTION PUTENTIAL (4V)	25.7 100. 460	28.5 75. 410	29.7 95. 410	29.5 90. 420
DISSOLVED OXYGEM, ELECTRODE (MG/L) PH (STO UNITS)	7.2 7.20	7.3 7.53	7.4 7.30	7.70
LARDHATORY DATA	•	•		
COLOR (PT-CD UNITS) TURBIDITY, MACH TURBIDIMETER (FTU) TOTAL NONFILTERABLE RESIDUE (MG/L)	25. 6.20 < 10.	33. 9.53 13.	32. 9.00 13.	34. 9.60 13.
TOTAL FILTERABLE RESIDUE (MG/L) CHEMICAL DATA	63.	59.	63 .	55.
MINERALS AND METALS			:	
* ALMALINITY, TOTAL (MG CACGOML) * SULFATE, DISSOLVED (MG SO4/L) * IFON, DISSOLVED (UG FE/L)	29. 7. < 50	22. 7. 173	25. < 50	24. 7. < 50
IFON, TOTAL (UG FEZL) MANCANTSE, DISSOLVED (UG MNZL) MANGANESE, TOTAL (UG MNZL)	< 50 < 50 < 50	380 100 170	370 < 50 160	250 < 50 130
· ZINC, TOTAL (UG ZN/L)	< 10	< 10	< 10	< 10
NUTRIENTS				
CARROUR DISSOLVED DEGANIC (MG C/L) CARROUR TOTAL DEGANIC (MG C/L) CARROUR DICKIDE (MG COS/L)	5 • 5 • 3 • 3	5. 6. 1.2	5. 5. 2.3	5• 0•0
• NITROGEN, TOTAL AMMONIA (MG NZL) • NITROGEN, NITRATERNITRITE (MG NZL) • NITROGEN, TOTAL INCREANIC (MG NZL)	<pre></pre>	<0.01 F0.03 <0.03	<0.01 0.09 <0.10	<0.01 0.04 <0.05
* NITTOGT": TOTAL KURUDAHL (NG NAL) * * NITTOGT": TOTAL DECARITO (MG NAL) * * NITTOGS.N: TOTAL (MG NAL)	0.5 > 0.5 > 0.5	0.5 > 0.5	0.5 > 0.5	1.0
* DETHIPHOSPHATE * DISSELVED (MG PZL) * PECSPHOSUS, TOTAL (VG PZL)	0.03	0.03	0.02	0.32

TABLE D-5d

PARAMETER NAME (UNITS)	STATION 11 9/26/73		5747177 12 0/26/78	ا ڏيا ا
PHYSICAL DATA MISCELLANEOUS DATA		•	•	
* X-SECTION LOC (4FPCM R-8K LK UPST) SAMPLE DIPTH (METERS)	90°	60. 4.0	50. 0.3	30. 1.0
FIFLO MEASUREMENTS			•	
* WATER TEMPERATURE (DEG C) * SPEC CONDUCTANCE, FED (UMHO/CM 250) * DXIDATION REDUCTION POTENTIAL (MY)	24.5 135. 410	23.5 135. 420	33.0	29.0 145. 370
DISSOLVED OXYGEN. ELECTROCE (MG/L) PH (STO UNITS)	7.6 5.10	7.3 7.60	9.6 8.40	9.00
LABORATTRY DATA	:	•	•	:
* CCLCG (PT-CO UNITS) * TUPBIDITY, HACH TUPBIDIMETER (FTU) * TOTAL NUMFILTERABLE RESIDUE (MG/L)	23. 9.00 < 10.	23. 8.50 11.	3.20 < 10.	20. 4.50 227.
TOTAL FILTERABLE RESIDUE (MG/L)	90.	81.	53.	136.
CHEMICAL DATA				
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACCOVL) SULFATE, DISSOLVED (MG SO4/L) IFON, DISSOLVED (UC FE/L)	▲B. 4. < 50	47. 4. < 53	34. < 1. < 50	62. 3. < 50
IFON, TOTAL (UG FEZL) MANGARESE, DISSOLVED (UG MNZL) MANGARESE, TOTAL (UG MNZL)	240 < 50 120	290 < 50 150	120 < 50 110	190 < 50 80
ZINC. TOTAL (UG ZNZL)	30	10	20	< 10
NUTRIENTS		· •	•	
CARBON. DISSOLVED ORGANIC (MG CVL) CARBON. TOTAL ORGANIC (MG CVL) CARBON DIDXIDE (MG CO2VL)	5. 5. 3.7	7. 2.1	7. 7. 0.2	< 2. 2. 0.i
NITE JGEN. TOTAL AMMONIA (MG NZL) NITE JGEN. NITE ATE+NITEITE (4G NZL) NITE DGEN. TOTAL INCRGANIC (4G NZL)	(0.01 0.03 (0.04	<0.01 0.04 <0.75	<0.01 <0.01 <0.02	<0.31 0.14 <0.15
NITROGEN. TOTAL KJEEDAHL (MG NZE) NITROGEN. TOTAL OFGANIC (ZO NZE) NITROGEN. TOTAL (MG NZE)).4 >).4 0.4	> 0.4	0.h > 0.6 < 0.6	0.5 > 0.5 0.5
PHOSPHORUS, TOTAL (MG PZL)	0.34	0.01 0.04	0.03	<0.01 0.05
) 		·

TABLE D-5e

PANAMETER MANY (JUITS)	STATIUN 13 9/2:/79	57 47 ICN	5747129 15 9725778	37A*10N 13 9/25/74
PHYSICAL DATA				
MISCELLANDOUS DATA				
X-SECTION LOC (YERRM REBE LE UPST) SAMPLE DIETH (MITTES)	30. 5.0	50. 1.)	50. 1.0	50. 7.0
FIELD MEASUREMENTS				
* MATCH TEMP FATURE (DIG C) * SEED CONDUCTANCE, FED (UMMINION 280) * OXIDATION REDUCTION PLIENTIAL (MV)	24.3 170. 373	25.5 210.	29.0 162. 310	24.0 170. 323
DISSELVED GXYGEN. ELECTRODE (MG/L) PH (STD UNITS)	7.4 8.20	7.5 7.50	8.2 9.40	9.00
LADDRATORY DATA				
CCLOR (PT-50 UNITS) TIRDIDITY, HACH TURBIDIMETER (FTU)	20. 5.60 203.	10. 5.30 < 10.	20. 3.60 300.	20. 4.43
TOTAL NONFILTERABLE RESIDUE (MG/L)	103.	118.	100.	120.
TOTAL FILTERABLE RESIDUE (MG/L) CHEMICAL DATA				:
MINERALS AND METALS		•		
* ALKALINITY, TOTAL (MG CACC3/L) * SULFATE, DISEDLYEU (MG SO4/L) * IFON, DISEDLYED (UG FE/L)	62. 3. < 50	93. < 1. < 50	61. 2. < 50	60. 3. < 50
IRON, TOTAL (UG FEZL) MANGANESE, DISSOLVEE (UG MNZL) MANGANESE, TOTAL (UG MNZL)	200 < 50 110	150 < 50 50	190 < 50 80	210 < 50 120
ZINC. TOTAL (UG ZNVL)	20	20	< 10	10
NUTRIENTS			-	· · · · · · · · · · · · · · · · · · ·
* CARBON* DISSOLVED ORGANIC (MG CZL) * CARBON* TOTAL OFGANIC (MG CZL) * CARBON DIOXID: (MG CCZZL)	< 2. 2. 0.7	9. 14. 5.4	2. 3. 0.4	< 2. 1. 1.1
NITPOGEN. TOTAL AMMONIA (MG NZL) NITROJEN. NITEATENITE (TE (TG NZL) NITEOGEN. TOTAL INUEGANIC (MG NZL)	<0.01 0.15 <0.16	<0.01 0.35 <0.36	<0.01 0.30 <0.31	0.03 0.19 0.22
* NITROGEN, TOTAL KJELDAML (MG NZL) * NITROGEN, TOTAL DEGANIC (MG NZL) * NITROGEN, TOTAL (MG NZL)	0.4 > 0.4 3.5	0.3 > 0.3 0.5	0.5 > 0.5 0.8	0.4 0.4 0.5
PHOSPHORUS, TOTAL (MG PZL)	<0.01 0.05	<3.01 0.01	0.01 0.06	0.02 0.05
·		·		,

TABLE D-5f

PARAMETER NAME (UNITS)	574710N 14 9/25/78	ST 47 104 17 9/25/78	STATION 18 9/26/78	5TATION 10 10 10 10 10 10 10 10 10 10 10 10 10
PHYSICAL DATA	•	•	•	
MISCELLANEOUS DATA	•			
X-SECTION LOC (MERCH F-BK LK UPST) SAMPLE DEPTH (METTRS)	50. 1.0	50. 1.0	50. 1.0	50. 1.0
FIELD MEASUPEMENTS		•		:
* WATER TEMPERATURE (DEG C) * SPEC CONDUCTANCE, FLD (UMHO/CM 25C) * DXIDATION REDUCTION POTENTIAL (MV)	28.J 145.	27.0 143.	29.5 135.	2°.5 132.
DISSCLVED DXYGEN, ELECTRODE (MG/L) PH (STD UNITS)	7.1 A.20	7.1 7.50	7.0 7.50	7.30
LABORATORY DATA	•	•	:	:
CCLCR (PT-CO UNITS)	16. 3.60 < 10.	13. 1.60 < 10.	34. 7.83 < 10.	6.10 4 10.
TOTAL NONFILTERABLE RESIDUE (MG/L)	88.	91.	85.	no.
CHEMICAL DATA				
MINERALS AND METALS	-	52.		43.
 ALKALINITY, TOTAL (MG CACO3/L) SULFATE, DISSOLVED (MG SU4/L) IRGN, DISSOLVED (UG FE/L) 	52. 4. < 50	3. < 50	44. 50	< 50
IRDN, TOTAL (UG FE/L) MANGANESE, DISSOLVED (UG MN/L) MANGANESE, TOTAL (UG MN/L)	220 < 50 60	150 < 50 < 50	220 < 50 120	250 < 50 130
ZINC. TOTAL (UG ZN/L)	< 10	< 10	10	10
NUTRIENTS	•	•	•	•
CARBON. DISSOLVED ORGANIC (MG C/L) CARBON. TOTAL ORGANIC (MG C/L) CARBON DIDXIDE (MG COZ/L)	< 3. 0.6	3.0	7. 2.5	6. 3.9
• NITROGEN. TOTAL AMMONIA (MG N/L) • NITROGEN. NITRATE-NITFITE (MG N/L) • NITROGEN. TOTAL INDEGANIC (MG N/L)	0.04 0.49 0.53	0.03 0.55 0.61	0.03 0.05 0.09	0.06 0.09 0.14
• NITROGEN: TOTAL KJELDAHL (MG NZL) • NITROGEN: TOTAL DEGANIC (MG NZL) • NITROGEN: TOTAL (MG NZL)	0.4	0.4	0.4 0.4 0.5	0.5 0.4 0.6
OPTHOPHOSPHATE, DISSCLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	0.08	0.07	0.02 0.04	0.03 0.04
	· 		- 	

TABLE D-6a

** LAKE SEMINOL: WATER QUALITY MANAGEMENT STUCY **
COMPS OF ENGINEERS (CONTRACT DACADI-78-0-0101) PHASE 1, CYCLE N

WATER QUALITY SAMPLING RESULTS Grab Samples

PARAMETER NAME (UNITS)	STATION 01 11/29/75	574713H 02 11/29/79	0.3	04 11/23/73
FHYSICAL DATA	•			
MISCELLANEOUS DATA				
X-SECTION LUC (XFROM F-BK LK UPST) SAMPLE DEPTH (METERS)	30. 1.3	50. 1.0	50. 1.7	50. 1.0
FIELD MEASUREMENTS				
WATER TEMPSHATURE (DEG C) SEEC CONDUCTANCE, FLD (UMHO/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	161.	19.0 151.	190.	19.0 35.
DISSOLVED DXYGEN, ELECTRODE (MG/L) PH (STD UNITS)	9.1 7.00	9.5 7.10	9.4 7.20	7.20
LABORATORY DATA				
CULCR (PT-CO UNITS) THERTOTTY, HACH TUPBILIMETER (FTU) TOTAL NONFILTERABLE RESIDUE (MG/L)	8.20 35.	30. 9.10	35. 9.80 < 10.	22. 9.40 16.
TOTAL FILTERABLE RESIDUE (4G/L) CHEMICAL DATA	55.	126.	59.	42.
MINERALS AND METALS				
· ALKALINITY, TOTAL (MG CACO3/L) · CPLORIDE (MG CL/L)	16. 3. 7.	15. 5.	16. 5.	16. 5.
SULFATE, DISSOLVED (MG S04/L) CALCIUM, TOTAL (MG CA/L) HAPONESS, TOTAL (MG CACOB/L) HON, DISSOLVED (UG FE/L)	3.0 12.2 < 50	3.8 13.9 60	7. 4.3 15.4 60	7. 3.9 14.6 90
IFON, TOTAL (UG FEZL) MAGNESIUM, TOTAL (MG MGZL) MANGANESE: DISSOLVED (UG MNZL)	780 1.1 < 50	810 1.1 < 50	959 1.2 < 50	900 1.2 < 50
MANGANESS: TOTAL (UG MN/L) PCTASSIUM: TOTAL (MG K/L) SCDIUM: TCTAL (MG NA/L)	50 2.4 6.03	60 2.3 5.72	70 2.2 5.55	70 2.2 5.55
ZINC. TOTAL (UG ZHZL)	< 10	< 10	< 10	< 10
NUTFIENTS	•			
* CARBON, DISSOLVED DEGANIC (MG C/L) * CARBON, TOTAL DEGANIC (MG C/L) * CARBON DIDXIDE (MG CCE/L)	< 5. 4. 3.4	3. 4. 2.5	< 6. 5. 2.1	< 5. 3. 2.1
NITOGEN, TOTAL ANDMA (MG NZE) NITOGEN, NITETHATE (MG NZE) NITOGEN, NITETHATE (MG NZE) NITOGEN, DATOT (MG NZE)	0.34 0.31 0.35	0.03 0.50 0.33	0.01 0.31 0.33	<7.01 0.32 0.32
NITROGEN. TOTAL KUTLDAHL (MG N/L) NITROGEN. TOTAL DRGANIC (MG N/L) NITROGEN, TCTAL (MG N/L)	0.4 0.7	0.4 0.7	0.3 0.3 0.7	9.3 9.3 9.5
* DETHOPHOSPHATO, DISSELVED (MG PZL) * FEOSPHORUS: TOTAL (MG MZL)	0.04	0.01	<0.01 0.04	<0.71 0.94

TABLE D-6b

	STATION	STATION	* STATION !	5747104
PARAVETER NAVE (UNITE)	11/23/74	11/25/78	11/30/78	11/30/72
PHYSICAL DATA				•
MICIELLANCOUS DATA				
X-SECTION LCC (REPOM RESK LK UPST) SAMPLE DEPTH (METERS)	50 • 1 • ს	50.	50. 1.0	4.0. 5.0
FIELD MEASUREMENTS				
WATER TEMPLEATURE (DEG C) SPIC CONDUCTANCE: FUE (UMHS/CM 250) DRIDATION PEDUCTION PUTENTIAL (MV)	13.3	19.)	12.2 112. 370	16.0 112. 360
DISSOLVED OXYGEN, ELECTRODE (MG/L) PH (STO UNITS)	8.5 7.20	8.2 7.20	9.4 7.1)	9.2 7.10
LABORATORY DATA				
CCLCR (PT-CO UNITS) TURBIDITY, MACH TURBIDIMETER (FTU)	63. 6.30	55. 9.4) < 10.	65. 9.7)	70. 30.00
TCTAL NONFILTERABLE RESIDUE (MG/L)	12. 79.	73.	88.	36
TOTAL FILTERABLE RESIDUE (MG/L) CHEMICAL DATA	•	, , , ,	•	3
MINERALS AND METALS			•	:
ALKALINITY, TOTAL (MG CACO3/L) CHLORIDE (MG CL/L) SULFATE, DISSOLVED (MG SO4/L)	25. 3. 12.	26. 5. 11.	29. 5. 13.	31. 5. 12.
CALCIUM, TOTAL (MG CA/L) MARDNESS, TOTAL (MG CA/23/L) IRJN, DISSCLVED (UG FE/L)	4.8 17.2 80	4.0 17.3 80	20.7 20.7	5.4 10.3 80
IRON, TOTAL (UG FE/L) MACRESIUM, TOTAL (MG MG/L) MANGANESE, DISSOLVED (UG MN/L)	930 1.3 50	750 1.A 70	870 1.3 110	4100 1.4 130
MANGANESE, TOTAL (UG MN/L) PCTASSIUM, TOTAL (MG K/L) SCDIUM, TOTAL (MG NA/L)	90 2.5 10.90	100	150 2.3 12.40	590 2.8 12.70
ZINC, TOTAL (UG ZN/L)	< 10	< 10	10	10
NUTFIENTS	•	:	•	: :
CARBON, DISSOLVED ORGANIC (MG C/L) CAPAON, TOTAL DEGANIC (MG C/L) CARBON DIGNIDE (MG CO2/L)	< 11. 7. 3.4	7. 7. 3.4	< 11. 6. 4.5	5.0
NITEGEN. TOTAL AMMONIA (MG N/L) NITEGEN. NITEATE+NITEITE (MG N/L) NITEGEN. TOTAL INOMGANIC (MG N/L)	0.02 0.32 0.34	<0.01 0.27 0.30	0.02 0.27 0.30	0.73 0.25 0.30
NITROGEN. TOTAL KJELDAHL (MG N/L) NITROGEN. TOTAL ORGANIC (MG N/L) NITROGEN. TOTAL (MG N/L)	0.4	0.4	0.6	0.8 0.8 1.1
PROSPHORUS, TOTAL (MG P/L)	<0.31 0.33	(0.01 0.04	10.0	0.05

TABLE D-6c

PARAMITER NAME (UNITS)	STATITN PO PO PT/CC/11	5747104 09 11/29/75	STATION 00 11/29/73	11(17ATE C1 ETNASNII
PHYSICAL DATA				
MISCELLANEOUS DATA * X-SECTION LOC (XFFCM F-bk Lk UPST) * SAMPLE DEPTH (METERS)	1.0	50. 1.0	50. 50.	50. 0.5
FIELD MEASUREMENTS				
* WATER TEMPERATURE (DEG C) * SPEC CONDUCTANCE, FLD (UMMOZEM 25C) * DXIDATION REDUCTION POTENTIAL (MV)	19.0 117. 370	18.5 124. 390	19.0 112. 370	13.5 400
DISSOLVED DXYGEN, ELECTRODE (MG/L) PH (STO UNITS)	8.1 7.30	6.a 7.10	7.2 7.00	9.4 7.40
LABORATORY DATA				
COLOR (PT-CO UNITS) TURBIDITY. HACH TURBIDIMETER (FTU)	70. 7.50 < 10.	47. e.00	47. 7.60 12.	24. 14.00
TOTAL NONFILTERABLE RESIDUE (MG/L)	87.	77.	75.	76.
CHEMICAL DATA	•			:
MINERALS AND METALS	:			
• ALKALINITY, TOTAL (MG CACODYL) • CHURIDE (MG CL/L) • SULFATE, DISSOLVED (MG SD4/L)	33. 5. 15.	31. 4. 11.	30. 4. 11.	25. 6. e.
CALCIUM, TCTAL (MG CA/L) MAPDRISS, TOTAL (MG CACD3/L) IFON, DISSOLVED (UG FE/L)	5.1 18.0 90	5.9 19.5 110	5.9 22.5 80	5.0 17.6 60
IRON, TOTAL (UG FEZL) MAGNESIUM, TOTAL (MG MGZL) MANGANISE, DISSOLVED (UG MNZL)	750 1.3 110	640 1.2 < 50	230 1.3 < 50	1130 1.3 < 50
MANGANESS, TOTAL (UG MY/L) PCTASSIUM, TOTAL (MG K/L) SCDIUM, TOTAL (MG NA/L)	150 2.5 13.40	90 2 • 5 8 • 5 ?	130 2.5 9.48	100 2.4 8.05
ZINC. TOTAL (UG ZN/L)	< 10	< 10	< 10	< 10
NUTRIENTS	•		· •	•
CARBON, DISSOLVED ERGANIC (MG C/L) CARBON, TOTAL DAGANIC (MG C/L) CARBON DIDXIDE (MG CO2/L)	< 10. 9. 3.4	, 6. 7. 5.1	6. 6. 6.3	< 0. 2.i
• NITROGEN. TOTAL AMMONIA (MG NZL) • NITROGEN. NITRATE+NITRITE (MG NZL) • NITROGEN. TOTAL INCRGANIC (MG NZL)	0.03 0.23 0.21	0.07 0.25 0.32	0.05 0.27 0.31	0.03 0.25 0.29
NITADGEN, TOTAL KJELDAHL (MG NZL) NITADGEN, TOTAL CHGANIC (MG NZL) NITADGEN, TOTAL (MG NZL)	0.6 0.5 0.7	0.4 0.3 0.5	0.4 0.4 0.7	2.5 0.4 0.7
SETHOPHOSPHATE, DISSELVED (MG P/L) PHESPHERUS, TOTAL (MG P/L)	<0.)1 0.)4	<0.01 0.04	<0.01 0.05	0.02 0.07

TABLE D-6d

PARAMETER NAME (UNITS)	STATION 11 11/28/78	STATION 11 11/79	STATION 13 11/29/78	NCITATE EI PTVESVII
PHYSICAL DATA				
MISCELLANEGUS DATA				
X-SECTION LOC (XFROM P-BK LK UPST) SAMPLE DEPTH (METERS)	85. 1.0	85. 4.0	90. 1.0	20. 7.0
FIELD MEASUREMENTS				
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C) DXIDATION REDUCTION POTENTIAL (MY)	18.5 117. 420	18.5 113. 410	14.5 149. 420	19.5 148. 420
DISSOLVED DXYGEN, ELECTRODE (MG/L) PM (STD UNITS)	7.70	7.9 7.70	8.0 7.90	7.80
LABORATORY DATA				
CCLOR (PT-CO UNITS) TUPBIDITY, HACH TURBIDIMETER (FTU) TOTAL NOMFILTERABLE RESIDUE (MG/L)	18. 10.00 < 10.	18. 11.00 12.	15. 6.00 < 10.	14. 5.50 < 10.
TOTAL FILTERABLE RESIDUE (MG/L)	72.	73.	90•	105.
CHEMICAL DATA	:			:
MINERALS AND METALS	•	•		:
ALKALINITY, TOTAL (MG CACO3/L) CHLDRIDE (MG CL/L) SULFATE, DISSOLVED (MG SO4/L)	37. ć. 8.	35. 5. 8.	59. 6. 4.	50. 5. 2.
CALCIUM. TOTAL (MG CA/L) HARUNESS, TOTAL (MG CACO3/L) IRON, DISSCLVED (UG FE/L)	8.3 25.7 < 50	8.2 25.5 60	15.1 42.5 < 50	15.A 44.3 < 50
IRON, TOTAL (UG FE/L) MAGNESIUM, TOTAL (MG MG/L) MANGANESE, DISSOLVED (UG MN/L)	770 1.2 < 50	650 1.3 < 50	450 1.2 < 50	930 1.2 < 50
MANGANESE, TOTAL (UG MN/L) POTASSIUM, TOTAL (MG K/L) SCDIUM, TOTAL (MG NA/L)	60 2.1 7.98	70 2.1 7.95	60 1.0 4.01	80 0.9 4.15
ZINC, TOTAL (UG ZNZL)	< 10	< 10	< 10	20
NUTRIENTS	•		•	
CARBON. DISSOLVED DRGANIC (MG C/L) CARBON. TOTAL DRGANIC (MG C/L) CARBON DIDXIDE (MG C02/L)	< 7. 6. 1.6	< 6. 6. 1.4	< 2. 3. 1.5	< 15. 4. 1.9
NITROGEN, TOTAL AMMONIA (MG N/L) NITROGEN, NITRATE+NITPITE (MG N/L) NITROGEN, TOTAL INCREANIC (MG N/L)	0.32 0.29 0.30	0.02 0.25 0.28	9.03 9.62 9.65	0.34 9.57 9.60
NITROGEN, TOTAL KJELDAHL (MG N/L) NITROGEN, TOTAL ORGANIC (MG N/L) NITROGEN, TOTAL (MG N/L)	0.5 0.4 0.7	0.4 0.3 0.5	0.3 0.3 1.0	0.4 0.3 0.9
* CRTHOPHOSPHATE, DISSOLVED (MG P/L) * PHOSPHORUS, TOTAL (MG P/L) *	<0.01 0.05	<0.01 0.05	0.04	0.03 0.07

Note: Station 12 not sampled due to low water.

TABLE D-6e

PARAMETER NAME (UNITS)	STATION 14 11/30/73	STATIJN 15 11/29/78	15	1 1 4
PHYSICAL DATA				
MISCELLANEOUS DATA				
X-SECTION LOG (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	1.3	50. 1.0	50. 5.2	50. 1.0
FIELD MEASUREMENTS	•			
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMDICM 25C) DXIDATION REDUCTION POTENTIAL (MV)	19.0	18.5 145. 440	19.5 143. 450	10.0
DISSOLVED OXYGEN, ELECTRODE (MG/L) PF (STO UNITS)	₽.6 7.30	8.5 7.0)	7.80	7.30
LABORATGRY DATA				
CCLCR (PT-CO UNITS) TURBIDITY, MACH TURBIDIMETER (FTH) TOTAL NONFILTERABLE RESIDUS (MG/L)	30. 11.90 24.	20. 8.00 < 10.	20. 10.00 < 10.	20. 4.30 < 10.
TOTAL FILTERABLE RESIDUE (MG/L)	84.	87•	82.	16.
CHEMICAL DATA				
MINERALS AND METALS		·		
ALKALINITY, TOTAL (MG CACO3/L) CHLORIDE (MG CL/L) SULFATE, DISSOLVED (MG SD4/L)	64. 3. 6.	53. 5. 3.	53. 6. 3.	53. 2.
CALCIUM, TOTAL (MG CA/L) MARUNESS, TOTAL (MG CACO3/L) IRDN, DISSCLVED (UG FE/L)	15.9 42.3 < 50	17.9 49.2 < 50	14.4 40.5 < 50	13.6 37.5 120
IRON, TOTAL (UG FEZL) MAGNESIUM, TOTAL (NG MGZL) MANGANESE, DISSOLVED (UG MNZL)	1370 0.7 < 50	680 1.2 < 50	940 1.1 < 50	470 0.8 < 50
MANGANESE. TOTAL (UG MN/L) PCTASSIUM, TOTAL (MG K/L) SCDIUM, TCTAL (MG NA/L)	130 0.7 1.14	60 0.9 4.23	90 1.3 4.22	< 50 3.9 3.94
ZINC. TOTAL (UG ZN/L)	< 10	< 10	20	< 10
NUTRIENTS				
CARBUN, DISSOLVED ORGANIC (MG CZL) CARBON, TOTAL ORGANIC (MG CZL) CARBON DIOXIDE (MG COZZL)	6. 6. 6.6	4. 5. 1.4	< 6.	< δ. 3. 5.6
NITPOSEN, TOTAL AMMONIA (MG NVL) NITHOGEN, NITPATE+HITFITE (MG NVL) NITROGEN, TOTAL INCREMNIC (AG NVL)	0.12 0.10 0.22	0.09 0.55 0.59	0.53 0.57	0.05 0.64 0.59
NITROGEN, TOTAL KJELDAHL (MG NZL) NITHOGEN, TOTAL OPGANIC (MG NZL) NITROGEN, TOTAL (MC NZL)	0.6 0.7 3.9	0.3 0.3	0.3 0.3 0.8	0.4 9.3 1.0
ORTHOPHOSPHATE, DISSOLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	0.J2 0.J7	0.02 0.07	0.05 0.00	0.05

TABLE D-6f

PARAMETER NAME (UNITS)	STATION 17 11/23/78	STATION 18 11/30/78
PHYSTCAL DATA		
MISCELLANFOUS DATA		
X-SECTION LOC (XFROM 4-BK LK UPST) SAMPLE DEPTH (METERS)	50. 1.0	5. 1.0
FIELD MEASUREMENTS	٠.	
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C) CXIDATION REDUCTION POTENTIAL (MV)	14:) 14:.	19.) 122.
DISSOLVED OXYGEN. ELECTRODE (MG/L) PH (STO UNITS)	7.4 7.23	9.0 7.60
LABORATORY DATA	- -	
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL NONFILTERABLE RESIDUE (MG/L)	20. 4.20 < 10.	21. 8.00 < 10.
TOTAL FILTERABLE RESIDUE (NG/L)	91.	99.
CHEMICAL DATA		
MINERALS AND METALS	•	
ALKALINITY, TOTAL (MG CACO3/L) CHLORIDE (MG CL/L) SULFATE, DISSOLVED (MG S04/L)	55. 5. 2.	47. 5. < 1.
CALCIUM, TCTAL (MG CA/L) HARDNESS, TOTAL (MG CACD3/L) IRON, DISSOLVED (UG FE/L)	16.3 44.6 250	14.2 40.3 < 50
IRON, TOTAL (UG FE/L) MAGNESIUM, TOTAL (MG MG/L) MANGANESE, DISSOLVED (UG MN/L)	490 0.2 < 50	49J 1.3 < 50
MANGAMESE, TOTAL (UG MN/L) PCTASSIUM, TOTAL (MG K/L) SCDIUM, TOTAL (MG NA/L)	< 50 1.0 4.40	60 1.5 6.25
ZINC. TOTAL (UG ZN/L)	< 10	< 10
NUTRIENTS	•	•
CARDON, DISSOLVED DEGANIC (MG C/L) CARBON, TOTAL DEGANIC (MG C/L) CARBON DIGNIC (MG CO2/L)	7.2	5. 6. 2.4
RITFOGEN, TOTAL AMMONIA (MG N/L) NITFOGEN, NITRATE+NITPITE (MG N/L) NITFOGEN, TOTAL INCRGANIC (MG N/L)	0.03 0.55 0.51	0.29 0.25 0.34
NITROGEN, TOTAL KJELDAHL (MG N/L) NITROGEN, TOTAL DEGANIC (MG N/L) NITROGEN, TOTAL (MG N/L)	0.2 0.2 0.3	0 • · 5 0 • 4 0 • 7
OFTHOPHOSPHATE, DISSCLVED (NG P/L) PHOSPHOPUS, TOTAL (MG P/L)	0.05 0.08	0.71 0.73

Note: Station 19 not sampled due to equipment malfunction.

TABLE D-7

** Lake seminole bater quality management study **
corps of engineers (contract dacwoi-78-C-0101) phase 1. Cycle 1

bater quality sampling results

Special Station - Grab Sample

PARAMETER NAME (UNITS)	STATION A0 4/17/78	STATICH B0 4/17/78
PHYSICAL DATA		
MISCELLANEOUS DATA		
X-SECTION LDC (XFROM R-EK LK UPST) SAMPLE DEPTH (METERS)	1.0	50. 1.0
FIELD MEASUREMENTS		
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	19.0 65. 530	19.0 75. 360
DISSOLVED DXYGEN. ELECTRODE (MG/L) PH (STC UNITS)	9.2 7.40	9.3 7.60
LABORATORY DATA		•
TURBIDITY, HACH TURBIDINETER (FTU)	22.00	29.00

TABLE D-8

** Lake Seminole water quality management Study **

COPPS OF ENGINEERS (CONTRACT DACWJ1-78-C-0101) PMASE 1. CYCLE 2

NATER QUALITY SAMPLING RESULTS
Special Station - Grab Sample

PAFAMETER NAME (UNITS)	STATION OA OO OO OO OO OO OO OO OO OO OO OO OO	STATION BO S/ 7/78	STATION 81 6/ 5/78	STATION B2 6/ 6/ 6/78
PHYSICAL DATA	·	•		
MISCELLANEOUS DATA				
H-SECTION LOC (MEROM R-BK LK UPST) SAMPLE DEPTH (MCTERS)	90. 1.0	20. 1.0	0. 1.0	1.0
FIELD MEASUREMENTS				
• NATER TEMPERATURE (DEG C) • SPEC CONCUCTANCE, FLD (UMHO/CM 25C) • CAIDATION PECUCTION FOTENTIAL (MV)	24.1 60. 620	24.0 78. 160		
CISSCLVEC DXYGEN. ELECTRODE (MG/L) FF (SID UNITS)	7.7 7.00	7.1 7.00		==
ATAD VADTARDEAL	•			
TURBICITY, MACH TURBICIPETER (FTU)	40.00	100.00		
BIOLOGICAL DATA				
** EACTERIOLOGICAL DATA	•		•	
* FECAL CCLFJRM (LOGIO(/100ML)) * FECAL STREPTCCOCCI (LCGIO(/100ML)) * FC/FS RATIO	 	 	1-26 1-08 1-50	<0.00 1.15 <0.07

^{**} Note: Sampled at 0.3 meters

PARAMETER NAME (UNITS)	STATION FE 6/ 6/78	
PHYSICAL DATA		
MISCELLANEQUE DATA		
N-SECTION LOC (XFROM PHIK EK UPST) SAMPLE DEPTH (METERS)	15• 1•0	
FIELD MEASUREMENTS		
WATER TEMPERATURE (DEG C) 5PTC COLDUCTANCE: FLO (LMHDZCM 25C) GREDATION REDUCTION POTENTIAL (MV)	27.0 95. 440	
DISSOLVED OXYCEN. ELECTRODE (MG/L)	#•1 7•00	
LABIFATORY DATA		
TURBIDITY, HACH TURBIDIMETER (FTU) BIOLOGICAL DATA	29.00	
** BACTER IDEDGICAL DATA		
FECAL CLIFORM (LOCIDE/LICOME)) FECAL STHEPTECHECE (LOGIDE/LEOME)) FECAL STHEPTECHECE (LOGIDE/LEOME))		

^{**} Note: Sampled at 0.3 meters

TABLE D-9

** Lake Semincle water quality management study **
corps of Engineers (Contract Dackoi-78-C-0101) phase 1. Cycle 3

water quality sampling results
Special Station - Grab Sample

PARAMETER NAME (UNITS)	STATION A0 7/19/78	STATION 80 7/19/78	STATION B1 7/18/78	STATION 82 7/17/78
PHYSICAL DATA	1	•		
MISCELLANEOUS DATA	·			•
X-SECTION LOC (XFROM R-OK LK UPST) SAMPLE DEPTH (METERS)	90. 1.0	20. 1.0	1.0	1.0
FIELD MEASUREPENTS				
WATER TEMPERATURE (DEG () SPEC CONDUCTANCE, FLC (UMHD/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	29.0 68. 510	29.0 108. 60		==
DISSOLVED DXYGEN. ELECTRODE (MG/L) PF (STD UNITS)	7.9 7.00	7.6 7.20		=
LABORATORY DATA		•		
TURBIDITY . HACH TURBIDIMETER (FTU)	10.00	23.00		
BIOLOGICAL DATA		•	•	•
** BACTERICLOGICAL DATA		:		•
FECAL COLFORM (LOGIO(/100ML)) FECAL STECPTOCOCCI (LOGIO(/100ML)) FC/FS RATIO		==	1.00 1.18 0.67	<0.00 <0.00 <

** Note: Sampled at 0.3 meters

PARAMETER NAME (UNITS)	STATION FE 7/18/76	
PHYSICAL DATA		
MISCELLANERUS DATA		
FESCRICK LUC (MERIM REIK LK UPST) CARELS DIPTH (MLTSKS)	15. 1.0	
FIELD MEASUREMENTS		
RATER TEMPERATURE (DEG C) CREC CONGUCTANCE, FLO (UMMOZOM 25C) CXIUATION REDUCTION FOTENTIAL (MV)	31.5 94. 370	
TISSCLVED DXYGEN. ELECTRODE (MG/L) Fr (SID UNITS)	9.9 8.40	
LASCHATORY DATA		
TURNICITY - HACH TURBICIPETER (FTU)	5.70	
BIOLOGICAL DATA		
** EACTERIOLOGICAL DATA		
PECAL COLFIRM (LUGIO(NIUOML)) PECAL STAMPTOCOCCI (LOGI)(NIUOML)) PCNES RATIO	 	

** Note: Sampled at 0.3 meters

TABLE D-10

** LAKE SEMINCLE WATER QUALITY MANAGEMENT STUDY ** COPPS OF ENGINEERS (CONTRACT DACHOI-78-C-0101) PHASE I. CYCLE 4

WATER CUALITY SAMPLING RESULTS Special Station - Grab Sample

PARAMETER NAME (UNITS)	STATION A0 8/17/78	STATION 00 8/17/78	STATION 81 8/14/78	STATION B2 8/14/78
PHYSICAL DATA				
MISCELLANEOUS DATA				
X-SECTION LOC (XFROM P-BK LK UPST) SAMPLE DEPTH (METERS)	90. 1.0	20. 1.0	0. 1.0	0. 1.0
FIELD MEASUREMENTS				
• WATER TEMPERATURE (DEG C) • SPEC CONDUCTANCE, FLD (UMHO/CM 25C) • OXIDATION REDUCTION POTENTIAL (MV)	28.0 75. 370	28.5 8C. 330	==	==
DISSOLVED DXYCEN. ELECTRODE (MG/L) Ph (STC UNITS)	7.4 7.10	7.2 6.50		
LABORATORY DATA				
TURBIDITY, HACH TURBIDIMETER (FTU)	7.00	7.20		_
BIOLOGICAL DATA				
** BACTERIOLOGICAL DATA				
FECAL CCLFCRM (LDG10(/100ML)) FECAL STREPTOCOCCI (LOG10(/100ML)) FC/FS FATIO	 		0.00 <1.00 >1.00	1.28 <0.00 35.00

** Note: Sampled at 0.3 meters

STATION FE 8/16/78
1.0
30.0 90. 390
7.4 7.40
14.00

** Note: Sampled at 0.3 meters

TABLE D-11
Water Quality Sampling Results
Phase I, Cycle 5

Parameter Name (Units)	Station AO 9/27/78	B0	Station B1 9/25/78	B2	Station Fe 9/26/78
Physical D ata					
Miscellaneous Data					
X-Section Loc (%From R-BK LK Upst)	90	20	*=		15
Sample Depth (Meters)	1.0	1.0	1.0	1.0	1.0
Field Measurements					
Water Temperature (Deg C)	27.5	28			28.0
Spec Conductance Fld (umho/cm 25C)	80	80			95
Oxidation Reduction Potential (mV)	450	80			420
Dissolved Oxygen, Elec- trode (mg/l)	8.2	7.9			7.5
PH (Std units)	7.3	7.5			7.5
Laboratory Data Turbidity, Hach Turbi- dimeter (FTU)	2.96	4.56			9,56
Biological Data					
** Bacteriological Data]				
Fecal Coliform (Log 10 (/100m1))			0.0		0.0
Fecal Streptococci (Log 10(/100m1))			1.57		0.0
FC/FS ratio			1.00		1.00

** Note: Sampled at 0.3 meters

TABLE D-12
Water Quality Sampling Results
Phase I, Cycle 6

Parameter Name (Units)	Station A0 11/29/78	Station B0 11/29/78	Station Fe
Physical Data			
Miscellaneous Data			
Y-Section Loc (%From R-BK LK Upst)	90	5	40
Sample Depth (Meters)	1.0	1.0	1.0
Field Measurements			
Water Temperature (Deg C)	18.0	18.0	18.5
Spec Conductance, Fld (umho/cm 25C)	180	103	129
Oxidation Reduction Potential (mV)	370	290	370
Dissolved Oxygen, Elec- trode (mq/l)	9.4	9.1	6.6
PH (Std units)	7.00	6.60	7.00
Laboratory Data Turbidity, Hach Turbi- dimeter (FTU)	7.56	9.06	6.76

the said to be the said of the

TABLE D-13a

*** LAKE SETTINGLE NATIF QUALITY MANAGEMENT STUDY **
CONDS OF ENGINEERS (CONTENCT DACWDI-TAHCHOLOL) PHASE I. CYCLE 1

WATER QUALITY SAMPLING FEBULTS

PARAMETER NAME (UNITS)	STATION 01 4/17/73	NCITATE 2C F7/E1/4	STATION 03 4/14/75	37A7109 33 4/18/79
BIRLOGICAL DATA ALGAL GROWTH POTENTIAL	•			
* ALGAL GROWTH POTENTIAL (MG/L)				
BIOMASS MEASUREMENTS	•			
• ATP (NGZL) • BIJMASS• PLANKTON (MGZCU M) • CHUCK DPHYLL-A (UGZL)	90 ·	80. 9. 6.4	70. < 1. 5.5	110.
* CHLOROPHYLL-8 (UG/L) * CHLOROPHYLL-C (UG/L) *	2.3	< 0.1	1.3 < 3.1	1.6
PANAVITE NAVE (UNITS)	STATION 055 05 4/17/73	57AT134 36 471474	574710N 07 4/16/74	574710H 08 4/10/73
BIOLOGICAL DATA				
ALGAL GROWTH PCTENTIAL				
ALGAL GROWTH POTENTIAL (MG/L)		9.53	R.83	
BIOMASS MEASUREMENTS				•
• ATP (NGVL) • BIOMAUS: PLANKTON (MGVCU M) • CHLOFOPHYLL-A (UGVL)	120. 7. 4.3	100. 5. 4.2	*0. 3. 4.3	3.6
· CHLOROPHYLL-3 (UG/L) · CHLOROPHYLL-C (UG/L)	1.4 0.2	1.3 < 0.1	9•5 < 3•1	3.3 < 3.1
PA-AMETER NAME (UNITS)	STATION 09 4/12/73	10 4/2)/79	4/20/19	STATION 12 12 4/20/73
BICLOGICAL DATA	•			
ALGAL SROWTH POTENTIAL	•			
ALGAL GROWTH POTENTIAL (MGZL)	7.61	6.41	9.75	1.45
BIOMASS MEASUPEMENTS				
* ATP (NGZL) * 918MASS, PLANKTON (MGZCU M) * CHLOFDPHYLL-A (UGZL)	150.	82. < 1.	90. < 1.	30 · · · · · · · · · · · · · · · · · · ·
CHLOROPHYLL-B (UGZL) CHLORGPHYLL-C (UGZL)	1.3 < 3.1	< 0.1 < 0.1	3.3 < 0.1	< 0.1 < 0.1

TABLE D-13b

PARAMETER NAVE (UNITS)	STATI 14 13 4/20/78	STATION 14 4/23/73	13	5747100 15 4/21/73
BIOLOGICAL DATA ALGAL GROWTH POTENTIAL ALGAL GROWTH POTENTIAL (MG/L) BIOMASS MEASUREMENTS ATP (NG/L) BIOMASS, PLANKTON (MG/CU M) CHLOPOPHYLL-A (UG/L)	80. 4. 6. ?	3.52 60. 2. 2.	14.90 60. < 1. 3-2	13.40 < 30. 5. 3.9
CHLOROPHYLL-B (UG/L) CHLOROPHYLL-C (UG/L)	< 0.1	< 0.1	< 0.1	< 0.1
PARAMETER NAME (UNITS)	STATION 17 4/21/78	57 47137 1 4/17/73	STATIG I 19 4/19/78	
BICLOGICAL DATA				
ALGAL GROWTH POTENTIAL ALGAL GEOWTH POTENTIAL (MG/L)	· ·	10.30		•
BIOMASS MEASUREMENTS ATP (NG/L) BIOMASS, PLANKTON (MG/CU M) CHLOF JPHYLL-A (UG/L) CHLOROPHYLL-B (UG/L)	40. 3. 3.)	< 70. 6. 9.4	170. < 1. 2.6 . 0.1 < 0.1	• • •

All other data from depth integrated samples composited from individual grab samples taken at 1 meter intervals above the depth of 1% light transmittance (or 8 equally spaced intervals where this zone is >7 meters).

Algal Growth Potential results represent the mean of the 12-day mean algal concentrations in the unspiked water.

TABLE D-14a

WE LAKE SEMINULE WATER QUALITY MANAGEMENT STUDY THE CORPS OF ENGINEERS (CONTRACT DACWOL-73-C-0101) PMASE 1. CYCLE 2

WATER QUALITY SAMPLING RESULTS

STATION 01 6/ 7/79	STATION 02 6/ 7/78	STATION 93	STATION 34 6/ 7/78
		•	
2.60	2.96	3.11	==
110. 2. 3.5	<100. 5. 2.9	<100. 3.7	90. 9. 4.1
0.B < 0.1	< 8:1	8.3	< 0:9
STATION 95 6/ 7/78	STATION 05 6/ 7/78	STATION 97 6/ 6/78	STATION 09 6/ 6/78
	,		•
9			:
3.57	3.79	2.90 2.43 2.96	<0.00 2.32 <0.01
<100. 5. 3.1	<10). 21. 4.0	100. 2. 2.5	120. 3.1
< 0.1	< 0.1	< 0.1	0.2
STATION 09 6/ 6/78	STATION 10 6/ 5/78	STATION 11 11 5/ 6/75	STATION 12 6/ 7/78
	•	•	•
;		;	:
<0.33 0.93 <0.11	0.90 <0.00 >2.00	<0.00 0.00 <1.00	0.30
•			•
500. J.	500. 21.7	400. 3. 9.0	30. < 1.
1:2 3:4	0.7 0.2	2.9	< 0.3
	01 6/7/79 2.60 110. 2.3.5 0.8 0.1 5TATION 6/7/78 3.57 4.00.1 5TATION 6/7/78 6/7/78	01	01

PARAMETER NAME (UNITS)	STATION 13 6/5/78	57 AT [JN 14 6/ 5/78	STATION 15 6/ 9/78	STATION 16 6/ 5/75
BIOLOGICAL DATA			· · · · · · · · · · · · · · · · · · ·	•
BACTER IOLOGICAL DATA				
FECAL COLFERM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS RATIC	<0.00 0.55 <0.14	1 • 1 9 1 • 0 9 1 • 2 5	1.15 1.15 0.93	2.36 1.92 2.77
BIDMASS MEASUPEMENTS				
ATP (NG/L) BIOMASS, PLANKTON (MG/CU M) CHLOROPHYLL~A (UG/L)	560. < 1.	70. < 1. 6.3	130. < 1. 11.2	30. < 1. 1.6
CHLOROPHYLL-B {UG/L} CHLOROPHYLL-C {UG/L}	< 0:1	6:3	< 0:1	< 0.1
PARAMETER NAME (UNITS)	STATION 17 6/5/78	STATION 18 6/ 6/78	STATION 19 6/6/78	
BIOLOGICAL DATA				
BACTER TOLDGICAL DATA				
FECAL COLFORM (LOGIO!/100ML)) FECAL STREPTOCOCCI (LOGIO!/100ML)) FC/FS RATIO	3.40 2.86 3.42	<0.00 2.85 <0.01	0.00 3.18 <0.01	•

Notes: Bacteriological data from grab samples taken at 0.3 meters. All other data from depth integrated samples composited from

individual grab samples taken at 1 meter intervals above the depth of 1% light transmittance (or 8 equally spaced intervals

30. 1. 1.3

90. 5. 5.6

220. 3. 4.7

< 0:1

where this zone is >7 meters).

BIOMASS MEASUREMENTS ATP (NG/L) BIDMASS, PLANKTON (MG/CU M) CHLORDPHYLL-A (UG/L)

CHLOROPHYLL-B (UG/L)

TABLE D-15a

Chars of that the Contract Cacheleration and Court of the Cythat a court of the Cythat and Court of the Cythat and Court of the Cythat and Court of the Cythat and Court of the Cythat and Court of the Cythat and Court of the Cythat and Court of the Cythat and Court of the Cythat and Court of the Cythat and Court of the Cythat and Cythat of the Cythat and Cythat of the Cythat and Cythat of the Cythat and Cythat of the Cythat and Cythat of the Cytha

раздистен маме (рудта)	57471 W	3737109 02 7/17/73	9757111 97 7/13/75	• ,
EIGLOGICAL DATA	•	•		•
ALGAL GROWTH POTENTIAL	:		•	•
ALCAL GROWTH POTENTIAL (MG/L)	•			
BACTERIOLOGICAL DATA	•			
FECAL COLFORM (UNGIN(ZIDOML)) FECAL STC: DTNCUCCI (UNGIN(ZIDOML)) - FEZES FATII	1.75 1.55	1.85 1.37 3.50	1.00 1.70 1.20	2.16 1.50
BIOMASS MEASUREMENTS				
ATP (MOVE) PICMASS. PLANKTON (MGVCU M) CHEOROPHYEE-A (UGVE)	173. 2. c.d	< 1. 11.	50. 3. 11.3	172.
CHLIRIPHYLL-R (UGZL)	< 0.1	1.2 0.7	1.5 0.5	1.2 0.4
DIRAKSTOR NAME (UNITS)	974711N 0 07 7/1 - /79	5737114 07 7/23/78	5747 <u>1</u> (H) 37 7/23/74	11017475 77 2776277
PLRA ASTER NAME (UNITS)	• 0- •	0-	• خو	ه خو د
BICLOGICAL DATA	• 0- •	0-	• خو	ه خو د
BICLOGICAL DATA ALGAL GEOWTH POTENTIAL	• 0- •	0-	• خو	ه خو د
BICLOGICAL DATA ALGAL GEOWTH POTENTIAL ALGAL GROWTH POTENTIAL (MG/L)	• 0- •	7/23/73	7/23/74	ه خو د
BICLOGICAL DATA ALGAL GEOWTH POTENTIAL	• 0- •	7/23/73	7/23/74	ه خو د
SICLOGICAL DATA ALGAL GEOWTH POTENTIAL ALGAL GROWTH POTENTIAL (MG/L) BACTER ICLOGICAL GATA FORAL COLFIRM (LCG1)(/153ML)) FORAL STUTPTOCOCT (LCG1)(/153ML))	7/1./79 7/1./79	5.83 2.7a 2.7a 2.5a	5-19 1-72 0-05	ه خو د
BICLOGICAL DATA ALGAL GEOWTH POTENTIAL ALGAL GROWTH POTENTIAL (MGZL) BACTER ICLOGICAL GATA FOCAL COLFIRM (LOGICALIANAL)) FOCAL STUDETCOCCI (LOGICALIANAL) FOCAL STUDETCOCCI (LOGICALIANAL)	7/1./79 7/1./79	5.83 2.7a 2.7a 2.5a	5-19 1-72 0-05	ه خو د

TABLE D-15b

PAFANCT'S NAME (UNITS)	57ATT 15	0 0 0	5717171 96 7/13/7=	. 12 .
BIGLOGICAL DATA				
* ALGAL GEDATH POTENTIAL				:
ALGAL GROWTH POTENTIAL (MGZL)		4.34		3.47
BACTTHIOLOGICAL DATA				
FECAL COLETRAM (LOGIS(ZIOOME)) FECAL STELETCOUCCI (LOGIS(ZIOOME)) FCZES HATIO	0.79 1.47 0.17	<0.00 1.32 <0.05		<0.70 7.75 <0.11
* ATP ("IGAL) * ATP ("IGAL) * ATP ("IGAL) * CHUCKDPHYLL-4 (UGAL)	89. 3. 10.9	5). 4. 11. ⁹		70. < 1. 14.5
• CHESKSPHYLL-8 (UG/L) • CHESKSPHYLL-C (UG/L)	1.3 0.5	1.4 0.2		1.7 0.3
PARAMETER NAME (UNITS)	STATIUU 11 7/1:/78	2/1 N.20	57471 m 12 7/19/75	5747774 13 7/17/78
: aistogical Data	,	; ;	·	
ALGAL GROWTH POTENTIAL	:	•	•	
+ ALGAL GROWTH POTENTIAL (MGZL)	5.43		2.35	5.22
ARCTESIDEDGICAL DATA	•		•	
FRICAL COLETION (LOGIO(Z100ML)) FRICAL STOLEMOCOCCI (LOGIO(Z100ML)) FRUES GATIO	(3.)3 1.73 (0.02	·	<0.00 0.4° <0.33	<0.29 0.09 <1.00
BIOMASS MEASUREMENTS	:	•	•	•
ETP (NG/L) ETDMAUS, PLANKTON (MG/CU M) CHEOROPHYLLHA (UG/L)	40. < 1. 10.0	==	< 1. 2.2	13.2
CHEGROPHYLL-C (UG/L)	< 0.7	==	0.0	1.2

TABLE D-15c

PARAMETER NAME (UNITS)	STATI TN 13 7/17/79	STATTIN 12 7/13/78	5747104 15 7/17/78	07AT10N + 15 7/17/73 +
BIOLOGICAL DATA				
ALGAL GROWTH POTENTIAL				
ALGAL GROWTH PETENTIAL (MG/L)		2.43	5.10	
BACTEP IDLEGICAL DATA				
FECAL COLFORM (LOGIO(ZIJOML)) FECAL STREPTUCCOCI (LOGIO(ZIJOJML)) FCZFS FATIC	 	0.60 0.00 4.00	0.00 <0.00 >1.00	==
BIOMASS MEASUPEMENTS		•	•	:
ATP (NG/L) BIOMASS, PLANKTON (MG/CU M) CHLOROPHYLL—A (UG/L)		40. 2. 6.3	470. 2. 13.2	=
CHLOROPHYLL-R (UG/L) CHLOROPHYLL-C (UG/L)		< 0.1	2.7 0.2	·
PARAMETER NAME (UNITS)	5TATION 1- 7/17/73	STATION 17 7/17/78	STATION 18 7/18/79	5TATION 12 7/12/79
PARAMETER NAME (UNITS) 910LOGICAL DATA	1-	17	• 14	. 12 .
1	1-	17	• 14	. 12 .
910LOGICAL DATA	1-	17	• 14	. 12 .
BICLOGICAL DATA ALGAL GEOWTH POTENTIAL	7/17/73	17	1Å 7/19/79	. 12 .
BICLOGICAL DATA ALGAL GEOWTH POTENTIAL ALGAL GROWTH POTENTIAL (MG/L)	7/17/73	17	1Å 7/19/79	. 12 .
BIOLOGICAL DATA ALGAL GEOWTH POTENTIAL ALGAL GROWTH POTENTIAL (MG/L) BACTERIOLOGICAL DATA FECAL COLETON (LOGIC(/100ML)) FECAL STRENTCOCCI (LOGIC(/100ML))	14.70	7/17/78	1.30 2.25	7/13/79 7/13/79
BICLOGICAL DATA ALGAL GEOWTH POTENTIAL ALGAL GROWTH POTENTIAL (MG/L) BACTEPIOLOGICAL DATA FECAL COLFOUM (LOGIC/100ML)) FECAL STATIOTICOCCI (LOGIC/100ML)) FC/FS HATIC	14.70	7/17/78	1.30 2.25	7/13/79 7/13/79

All other data from depth integrated samples composited from individual grab samples taken at 1 meter intervals above the depth of 1% light transmittance (or 8 equally spaced intervals where this zone is >7 meters.

Algal Growth Potential results represent the mean of the 12-day and 14-day mean algal concentrations in the unspiked water.

TABLE D-16a

** LAKE SEMINDLE WATER QUALITY MANAGEMENT STUDY **
COFPS OF ENGINEERS (CONTRACT DACW)1-70-C-01011 PHASE 1. CYCLE 4

PARAMETER NAME (UNITS)	STATICN 01 01 8/17/78	STATION 02 8/17/73	STATIO:. 23 8/17/75	STATION 24 9/17/78
BIDLOGICAL DATA BACTERIOLOGICAL DATA				
FECAL COLFORM (LOGIO(/100ML)) FECAL STREPTOCUCCI (LOGIO(/100ML)) FC/FS RATIU	1.70 1.53 0.74	1.70 1.59 1.30	1.48 1.61 0.73	1.60 1.51 1.30
BIOMASS MEASUPEMENTS				
ATP (NG/L) BIOMASS, PLANKTON (MG/CU M) CHLOROPHYLL—A (UG/L)	70. 9. 9.7	130. 2. 9.5	110. 2. 9.9	90. 3. 11.0
CHEOROPHYLL-8 (UG/L) CHEOROPHYLL-C (UG/L)	0.7 < 0.1	0.7 < 0.1	1.6 0.9	0.7 0.5
PAPAMFTER NAME (UNITS)	STATION 05 8/17/78	STATION 06 8/17/78	STATION 07 8/16/7A	STATION 07 3/16/73
PIDLOGICAL DATA				•
BACTERIOLOGICAL DATA	•	:	:	:
FECAL COLFORM (LDG10(/100ML)) FECAL STREPTOCOCCI (LDG10(/100ML)) FC/FS RATIO	1.45 1.60 0.70	1.93 1.57 2.30	<0.00 1.11 <0.08	: ==
BIOMASS MEASUREMENTS	:	:		•
ATP (NG/L) BIOMASS. PLANKTON (MG/CU M) CHLOROPHYLL-A (UG/L)	80. 3. 11.5	80. 2. 10.5	70. 2. 9.8	
CHLOROPHYLL-B (UG/L) CHLOROPHYLL-C (UG/L)	1.9	1.3	< 0.1	==
PAHAMETER NAME (UNITS)	STATICN 08 8/16/78	37 AT LCN 09 5/16/78	3TATICH 39 8/16/7P	* STATION * 10 * 8/15/73
BIOLOGICAL DATA	•	•	:	:
BACTER IDLOGICAL DATA	:	•	•	•
FECAL COLFORM (LOGIO(/100ML)) FICAL STREPTOCCCCI (LOGIO(/100ML)) FC/FS RATIO	0.49 1.36 0.13	0.30 0.35 0.29		<0.00 0.30 <0.50
BIOMASS MEASUREMENTS	:	:		:
ATP (NG/L) BIOMASS: PLANKTON (MG/CU M) CHLOROPHYLL-A (UG/L)	93. 3. 9.3	100.	==	120. 3. 19.0
CHLOROPHYLL-B (UG/L) CMLOROPHYLL-C (UG/L)	0.4 < 0.1	1.5		0.9

TABLE D-16b

PARAMETER NAME (UNITS)	STATION 11 8/16/78	STATION 11 8/16/79	STATION 12 8/15/79	STATION 13 8/14/78
BIDLOGICAL DATA				
BACTERIOLOGICAL DATA				:
FECAL COLFORM (LOGIO(/100ML)) FECAL STPFPTDCDCCI (LOGIO(/100ML)) FC#5 RATIO	0.00 <0.00 >1.00	=	<0.00 <0.00	<0.00 1.34 <0.05
BIDMASS MEASUREMENTS				:
ATP (NG/L) BIDMASS. PLANKTON (MG/CU M) CHLOROPHYLL-A (UG/L)	70. 2. 14.7	==	30. < 1. 1.0	116. 22.9
CHLOROPHYLL-B (UG/L) CHLOROPHYLL-C (UG/L)	1.8 0.7	=	0.5 0.1	2.5 1.5
PARAMETER NAME (UNITS)	STATION 13 4/14/78	STATIUN 14 8/15/78	STATION 15 8/14/79	STATION 15 8/14/75
BIOLDGICAL DATA BACTERICLEGICAL DATA				
FECAL CGLFDRM (LCG10(/100ML)) FECAL STREPTOCOCCI (LDG10(/100ML)) FC/FS RATIO	 	1.65 1.15 3.20	1.32 1.05 1.60	==
BICHASS MEASUREMENTS				
ATP (NG/L) BICMASS. PLANKTON (MG/CU M) CHLORDPHYLL (UG/L)	 	90. < 1. 4.6	330. 3. 28.3	
CHLOROPHYLL-B (UG/L) CHLOROPHYLL-C (UG/L)		1.5 0.2	5 • l 2 • 2	==
PARAMETER NAME (UNITS)	STATION 16 5/14/78	STATION 17 E/14/79	STATION 18 9/16/79	STATION 19 19 19/16/79
BIOLOGICAL DATA				:
BACTEPIOLOGICAL DATA				;
FECAL COLFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS PATIO	2.32 1.34 19.30	2.61 1.36 27.00	0.01	1.04 2.79 0.02
BEDMASS MEASUREMENTS	•		•	;
ATP (NG/L) BIOMASS. PLANKTON (MG/CU M) CHLORUPHYLL—A (UG/L)	60. 1. 2.4	< 60. 6. 2.5	80. < 1. 13.1	70. 2. 12.6
CHLOROPHYLL-B (UG/L) CHLOROPHYLL-C (UG/L)	0.3 < 0.1	0.2 0.1	4.9 0.5	0.6

All other data from depth integrated samples composited from individual grab samples taken at 1 meter intervals above the depth of 1% light transmittance (or 8 equally spaced intervals where this zone is >7 meters.

TABLE D-17a

LAKT (FMINDL) ALTED QUALITY HAVANGMENT OF JEY -- COTPS OF LNGTH-LES (CONTERCT DACADI-F)-C-GIDII PHRST (L. TYCL) -

WATER MUSEITY SAMPLING RECOURTS

(effin) swam attradae	STATION 01 01 01 01 01 01 01 01 01 01 01 01 01	97471 W 92 972778	9777137 23 2727778	5747174 74 74773
BIULOGICAL DATA	•		,	
ALGAL GROWTH POTENTIAL				
ALGAL GROWTH POTENTIAL (MGZL)		:	;	:
BASTER IGHOGISHE DATA			;	
FOCAL COLFTEN (LOGIO(ZIOUML)) FROAL OTEOPTOCOCCI (LOGIO(ZIOUML)) FOZES RATIO	1.60	1.34 1.30 1.10	1.63 1.40 1.72	0.79 1.40 2.32
BIOMASS MEASUPEMENTS		•	•	•
• ATP (MGZL) • PICMASS• PLANKTON (MGZCU M) • CELOROPHYLL—A (UGZL)	300. < 1. 12.0	12.5 12.5	110.	70. 11.0
CHECKORATE (OGZE)	0.3 < 0.1	1.2 0.7	1.3	0.6 3.1
PARAMETER NAME (UNITS)	STATI IN U5 9/27/72	577710N 05 9/27/78	STATION 07 0727/73	6 574-194 67 67-277-2
. BIGLOGICAL DATA		:	:	•
ALGAL GENWIH PRIENTIAL		•	•	•
* ALGAL GROWTH POTENTIAL (MGZL)		7.63	9.27	•
BACTER ICHTGICAL DATA			•	•
* FOCAL COLFORM (LOGID(ZIOUME)) * FLORE STRIPTOCOCC: (EDGID(ZIOUME)) * FOZES FATIO	2.06 1.45 4.37	2.07 1.49 1.67	1.41	===
BIGMASS MEASUREMENTS	•		•	
* ATH (NGCL) * PINMATS, PLANKTON (MGCCU N) * CHEUROPHYLL-A (UGCL)	150.	150. 5. 9.1	90.	==
CHEDROPHYEL-R (UGZE)	< 0.1	2.1	0.2	

TABLE D-17b

DARAMETUR HAME (UNITE)	STATI 71 JR 0/20/78	37A713N 99 9726778	5TATION 10 1/26/78	2747179 12 2/26/73
BIOLOGICAL DATA			,	
ALGAL GROWTH POTENTIAL			,	:
ALGAL GRUWTH POTENTIAL (MG/L)		4.39		3.12
BACTER IDEDGICAL DATA				
FECAL COLFORM (LOGIO(/IOOML)) FECAL STEPTECCCCI (LOGIO(/IOOML)) FC/F5 FATIO HIDMASS MEASUPEMENTS	1.34	<0.00 2.15 <1.00	 	<3.00 2.70 <1.20
ATP (NG/L) RIUMASS. PLANKTON (NG/CU M) CHLCROPHYLL-A (UG/L)	160. < 1. 14.0	170. 1. 16.3	 	143. 1. 19.0
CHLOROPHYLL-B (UG/L)	1.3	< 0.1		1.0
PARAMETER NAME (UNITS)	STATION 11 9/25/73	11 11 87\65\9	57471"1 12 9/26/79	57 (7104) 13 125273
BICLOGICAL DATA	•	•	•	•
BICLOGICAL DATA ALGAL GROWTH POTENTIAL	•	•	: •	•
- ·	2.21	· · · · · · · · · · · · · · · · · · ·	1.44	4.72
AUGAL GROWTH POTENTIAL	2.21		1.44	. 4.72
ALGAL GROWTH POTENTIAL ALGAL GROWTH POTENTIAL (MG/L)	2.21 0.30 1.39 0.31		0.00 0.00 0.00 0.03	4.72 . 4.72
ALGAL GROWTH POTENTIAL ALGAL GROWTH POTENTIAL (MG/L) BACTEPIDLOGICAL DATA FECAL COLFORM (LOGIO(/100ML)) FFCAL STREPTOCOCCI (LOGIO(/100ML))	0.00		0.00 0.00	
ALGAL GROWTH POTENTIAL ALGAL GROWTH POTENTIAL (MG/L) BACTEPIDLOGICAL DATA FECAL COLFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS GATIO	0.00		0.00 0.00	

TABLE D-17C

PARAMETER MANG (UNITS)	574T] IN 13 9/25/79	STATICN 14 C/27/78	5737131 15 973577e	9/25/73
BIOLOGICAL DATA				•
ALGAL GROWTH POTENTIAL				:
ALGAL GPONTH POTENTIAL (MG/L)		2.11	4.9-	:
BACTERIOLOGICAL DATA				:
FECAL COLFGRM (LDG10(/100ML)) FECAL STRTPTOCACCI (LDG10(/100 4L)) FECAS PATIO	 	0.37 <0.00 >1.00	<0.00 1.25 <1.00	Ξ
BIOMASS MEASUFEMENTS				
* ATP (NGZE) * BIOMASS* PLANKTON (MGZCU M) * CHUBAOPHYLL-4 (UGZE)		100. 4. 8.5	240. < 1. 22.0	
CHLOROPHYLL-R (UGZL) CHLOROPHYLL-C (UGZL)	==	0.5 < 0.1	2.9 0.5	==
	STATION	,	•	
PARAMETER NAME (UNITS)	9/25/74	57 47 10H 17 9/25/76	• \$TAT10: 18 • 9/36/74	07ATION 12 9/25/73
PARAMETER MAKE (UNITS)	1 -	4 1 7	• 18	
,	1 -	4 1 7	• 18	
BICLOGICAL DATA	1 -	4 1 7	• 18	
BICLOGICAL DATA ALGAL GROWTH POTENTIAL	9/25/74	4 1 7	2/26/7A	
BICLOGICAL DATA ALGAL GROWTH POTENTIAL ALGAL GROWTH POTENTIAL (MG/L)	9/25/74	4 1 7	2/26/7A	
BIGLOGICAL DATA ALGAL GROWTH POTENTIAL ALGAL GROWTH POTENTIAL (MG/L) BACTER TOLOGICAL DATA FECAL COLFORM (LOGIO(/1004L)) FFCAL STREETCOLOGI (LOGIO(/1004L))	9/25/7a 9/25/7a 23.90	9/25/7e	3.27 <0.00 2.76	0.30
BIGLOGICAL DATA ALGAL GROWTH POTENTIAL ALGAL GROWTH POTENTIAL (MG/L) BACTE TOLOGICAL DATA FECAL COLF FRM (LOGID(/100ML)) FECAL STRUTCCJCCI (LOGID(/100ML)) FCC/FS PATIC	9/25/7a 9/25/7a 23.90	9/25/7e	3.27 <0.00 2.76	0.30

All other data from depth integrated samples composited from individual grab samples taken at 1 meter intervals above the depth of 1% light transmittance (or 8 equally spaced intervals where this zone is >7 meters).

Algal Growth Potential results represent the mean of the 12-day and 14-day mean algal concentrations in the unspiked water.

PARAMETER NAME (UNITS)	57471794 01 11/29/75	5747104 02 11/29/78	5747]** 93 11/29/76	STATION 04 11/23/73
BICLOGICAL DATA BIOMASS MEASUFEMENTS ATP (11g/L) BIOMASS, PLANKTON (MG/CU M) CHLOROPHYLL-A (UG/L) CHLOROPHYLL-B (UG/L) CHLOROPHYLL-C (UG/L)	A0. 3. 5.0 1.3	80. 2. 5.5 0.5 < 0.1	50. 3. 5.7 2.7 1.1	60. 3. 6.5 1.7 0.3
PARAVETER NAVE (UJITE)	STATION 05 11/20/78	5747120 36 11/29/78	5TATION 07 11/30/78	574719H 57 11/33/79
BICLOGICAL DATA BIOMASS MEASUREMENTS ATP (NG/L) BICMASS, PLANKTON (MG/CU M) CHLOROPHYLL-A (UG/L) CHLOROPHYLL-B (UG/L) CHLOROPHYLL-C (UG/L)	70. 6.2 1.5	90. 3. 7.4 1.1 0.9	90. 7.4 1.5 0.3	=======================================
PARAMÉTÉE NAME (UNITS)	STATION 09 11/33/78	STATION 09 11/29/75	STATION 97 11/29/73	PF TATE 10 11/06/11
BIDLOGICAL DATA BIDMASS MEASUREMENTS ATP (NG/L) BICMASS PLANKTON (MG/CU M) CHLOROPHYLL-B (UG/L) CHLOROPHYLL-C (UG/L)	133. 7.1 0.5 < 0.1	130. 2. 10.5 3.1 1.3		110. 3. 11.5

TABLE D-18b

PARAMETER NAME (UNITS)	STATION 14 11/J3/79	STATIJN 15 11/29/78	5747184 15 11/29/78	STATION 16 11/24/73
BIOLOGICAL DATA	•	•		•
BIOMASS MEASUREMENTS	•	•	•	
ATP (NG/L) BIOMASS, PLANKTON (MG/CU M) CHLCROPHYLL—A (UG/L)	130. 9. i	100. 1. 13.5	==	40. 1. 1.2
CHLOROPHYLL-B (UG/L) CHLORJPHYLL-C (UG/L)	2.5	2.2	==	0.5 < 0.1
PARAMETER NAME (UNITS)	STATION: 11 11/24/78	STATION 11 11 11/25/73	57 \- 101 13 11/29/76	13 13 11/23/74
BIOLOGICAL DATA	1	!		
BIOMASS MEASUREMENTS				
ATP (NG/L) BICMASS, PLANKTON (MG/CU M) CHLOROPHYLL-A (UG/L)	130.	 	140. 2. 12.5	
CHLOROPHYLL-B (UG/L) CHLOROPHYLL-C (UG/L)	2.5 0.6	==	3.5	
PARAMETER NAME (UNITS)	STATION 17 11/03/78	STATIJN 13 11/30/78		
BICLOGICAL DATA			•	
BIOMASS MEASUPEMENTS				
ATP (NG/L) BIUMASS. PLANKTON (MG/CU M) CHLOPOPHYLL-A (UG/L)	4). < 1.	120. 2. 8.4		
CHLOROPHYLL-B (UG/L) CHLOPOPHYLL-C (UG/L)	0.5 < 0.1	1.7		
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				

All other data from depth integrated samples composited from individual grab samples taken at 1 meter intervals above the depth of 1% light transmittance (or 8 equally spaced intervals where this zone is >7 meters).

APPENDIX E

LABORATORY QUALITY CONTROL DATA

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TABLE E-1a

** Lake Semingle water quality management study **

**CORPS OF ENGINEERS (CONTRACT DACWO!~78-C-0101) PHASE :. CYCLE 1

DATA FROM DUPLICATE ANALYSES

PARAMETER NAME (UNITS)	STATION 1-A 4/17/78	STATION 1-8 4/17/78	STATION 2-A 4/18/78	STATION 2-8 4/18/76
PHYSICAL DATA				
• LABORATORY DATA				:
• COLOR (PT-CO UNITS) • TURBIDITY, HACH TURBIDINGTER (FTU) • TOTAL FILTERABLE RESIDUE (MG/L)	25.00	50. 26.00	23.00	50. 24.00
TCTAL NONFILTERABLE RESIDUE (MG/L)	10.	24.		
CHEMICAL DATA				
MINERALS AND METALS				•
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, DISSOLVED (MG SO4/L) IFON, DISSOLVED (UG FE/L)	14.	14. 210	1 6. 1 50	16.
• IRON. TOTAL (UG FE/L) • MANGANESE. DISSOLVED (UG MN/L) • MANGANESE. TOTAL (UG MN/L)	1750 < 50 60	1670 < 50 80	1620 < 50 70	1520 < 50 70
* ZINC. TOTAL (UG ZN/L)	30	30	30	40
NUTRIENTS		•		•
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) NITFOGEN, TOTAL AMMONIA (MG N/L)	0.09	< 8.	0.11	< 7.
NITRUGEN, NITRATE+NITRITE (MG N/L) CRIHOPHOSPHATE, DISSOLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	0.23 <0.01	0.22 <0.01	0.27	0.27 0.01
BIOLOGICAL DATA	•	•	•	•
BICHASS MEASUREMENTS	•	•	•	•
PIOMASS. PLANKTON (GM/CU M) CHLOROPHYLL-A (UG/L) CHLOREPHYLL-D (UG/L)	2. 8.4 2.6	11. 8.1 1.3	7.6	5.2 1.7
* CHLOROPHYLL-C (UG/L)	< 0.1	< 0.1	< 0.1	< 0.1

TABLE E-1b

PARAMETER NAME (UNITS)	STATION 6-A 4/19/78	STATION 8-8 4/19/78	STATION 11-A 4/20/78	STATION 11-8 4/20/78
PHYSICAL DATA	•			
LABORATORY DATA				
CCLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDINETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	50. 29.00 58.	55. 29.00 54.	50. 26.00 64.	50. 26.00 73.
TETAL NONFILTERABLE RESIDUE (MG/L)				
CHEMICAL DATA				
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, DISSOLVED (MG SO4/L) IRCH, DISSOLVED (UG FE/L)	17. 190	19. 190	23. 4. 170	23. 5. 210
IRON, TOTAL (UG FE/L) MANGANESE, DISSULVED (UG MN/L) MANGANESE, TOTAL (UG MN/L)	2160 < 50 90	2100 < 50 90	1770 < 50 80	1780 < 50 80
ZIAC, TOTAL (UG ZN/L)	30	30	30	30
NUTRIENTS				
CARBON. DISSOLVED ORGANIC (MG C/L) CARBON. TOTAL OPGANIC (MG C/L) NITROGEN. TOTAL AMMONIA (MG N/L)	< 7. 6. 0.10	7. 7. 0.10	7. 7. 0.96	7. 7. 0.07
NITRGEN. NITRATE+NITRITE (MG N/L) UFTHOPHOSPHATE. DISSCLVED (MG P/L) PHCSPHURUS. TOTAL (MG P/L)	0.27 0.01	0.27 0.01	0.27 <0.01 0.08	0.27 <0.01 0.08
BIOLOGICAL DATA	•			
DIOMASS MEASUREMENTS	•			-
BICMASS, PLANKTON (GM/CU M) CHLORCPHYLL-A (UG/L) CHLOROPHYLL-B (UG/L)	3.6 0.2	3:4 0:3	5.8 0.3	3. 5.4 0.2
CHLOROPHYLL-C (UG/L)	< 0.1	< 0.1	< 0.1	< 0.1

TABLE E-1c

PARAMETER NAME (UNITS)	STATION 15-A 4/21/78	STATION 15-8 4/21/78
PHYSICAL DATA		•
LABORATORY DATA		
COLOR (PT-CO UNITS) TURBICITY, MACH TURBIDIMETER (FTU) TCTAL FILTERABLE RESIDUE (MG/L)	60. 13.00	13.00
TOTAL NONFILTERABLE RESIDUE (MG/L)	3.	9.
CHEMICAL DATA		
MINERALS AND METALS		
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, DISSOLVED (MG \$04/L) IRON, DISSOLVED (UG FE/L)	32. 380	32. 370
IRON, TOTAL (UG FE/L) MANGANESE, DISSOLVED (UG MN/L) HANGANESE, TUTAL (UG MN/L)	1370 < 50 70	1410 < 50 70
ZINC. TOTAL (UG ZN/L)	20	10
KUTRLENTS		
CARDON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) NITROGEN, TOTAL AMMONIA (MG N/L)	< 8. 6. 0.12	< 8. 6.09
NITROGEN. NITRATE+NITRITE (MG N/L) OPTHOFHOSPHATE, DISSOLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	0.32 0.03 0.08	0.32 0.03 0.08
HIDLOGICAL DATA	•	: :
BIOMASS MEASUREMENTS	•	:
BICHASS. PLANKTON (GM/CU M) CHLOROPHYLL-A (UG/L) CHLOROPHYLL-B (UG/L)	3.3	3.0
CHLOROPHYLL-C (UG/L)	< 0.1	< 0.1

TABLE E-2a

** Lake Semindle water Quality Management Study **

CORPS DI ENGINEERS (CONTRACT DACWOL-78-C-0101) PMASE 1. CYCLE 2

DATA FROM DUPLICATE ANALYSES

PARAMETER NAME (UNITS)	574710N 6-A 67778	STATION 6-8 6/ 7/78	STATION 11-A 6/6/78	STATION 11-8 6/6/78
PHYSICAL DATA				
LAHURATCPY DATA				
* COLOR (PT-CO UNITS) * TURDIDITY, HACH TURBIDINETER (FTU) * TOTAL FILTERADLE RESIDUL (MG/L)	120. 160.00 101.	120. 150.00 106.	35. 6.60 81.	35. 7.00 94.
TCTAL NONFILTERABLE RESIDUE (MG/L)	109.	129.	5.	4.
CHEMICAL DATA				
MINERALS AND METALS	•			
* ALKALINITY, TOTAL (MG CACO3/L) * SULFATE, DISSGLVED (MG SO4/L) * SULFIDE, TOTAL (MG S/L)	17. 4. 0.7	16. 4. 0.3	51. 2. 0.1	50. 2. 0.2
• IRON. DISSOLVED (UG FE/L) • IRON. TOTAL (UG FE/L) • MANGANESE, DISSOLVED (UG MN/L)	150 5010 < 50	150 5020 < 50	190 610 < 50	190 630 < 50
MANGANESE. TOTAL (UG MN/L) ZINC. TOTAL (UG ZN/L)	150 50	150 40	< 50 50	< 50 50
NUTRIENTS				
* CARBON. DISSOLVED DRGANIC (MG C/L) * CARBON. TOTAL DRGANIC (MG C/L) * NITROGEN, TUTAL AMMONIA (MG N/L)	9. 11. 0.10	12. 12. 0.09	7. 7. 0.05	7. 8. 0.06
• NITRCGFN, NITRATE+NITRITE (MG N/L) • ORTHOGHOSPHATE, DISSCLVED (MG P/L) • PHCSPHGRUS, TOTAL (MG P/L)	0.40 3.06 0.35	0.36 0.06 0.34	0.36 <0.01 0.08	0.36 <0.01 0.10
BIOLOGICAL DATA				
EACTERIOLOGICAL DATA	•	- •		
FECAL COLFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML))	<0.00 0.57	<0.00 0.59	==	<0.00
BIOMASS MEASUREMENTS	•			
DICMASS, PLANKTON (GM/CU M) CHLORCPHYLL-A (UG/L) CHLOROPHYLL-B (UG/L)	15. 4.0 1.5	27. 3.9 1.3	9. 9.6 3.7	7. 8.4 2.1
CHLORCPHYLL-C (UG/L)	< 0.1	< 0.1	0.5	0.7

TABLE E-2b

PARAMETER NAME (UNITS)	STATION 17-A 6/5/78	STATION 17-8 6/ 5/78
PHYSICAL DATA	•	•
LABORATORY DATA		
CGLCR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	55. 6.70 93.	50. 8.40 93.
TOTAL NONFILTERABLE RESIDUE (MG/L)	15.	19.
CHEMICAL DATA		
MINERALS AND METALS	•	
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, DISSOLVED (MG SDA/L) SULFIDE, TOTAL (MG S/L)	49. 2. 0.1	50. 2. < 0.1
IRON. DISSDLYED (UG FE/L) IRDN. TOTAL (UG FE/L) MANGANESE, DISSDLYED (UG MN/L)	410 1110 < 50	420 1070 < 50
MANGANESE, TOTAL (UG MN/L) ZINC. TOTAL (UG ZN/L)	< 50 40	< 50 40
NUTRIENTS	•	•
CARBON. DISSOLVED ORGANIC (MG C/L) CARBON. TOTAL ORGANIC (MG C/L) NITFOGEN. TOTAL AMMONIA (MG N/L)	< 7. 6. 0.08	6. 6. 0.10
NITROGEN, NITRATE+NITRITE (MG N/L) ORTHOPHOSPHATE. DISSCLVED (MG P/L) PHOSPHORUS. TOTAL (MG P/L)	0.58 0.02 0.13	0.58 0.02 0.11
BIOLOGICAL DATA		
BACTERIOLOGICAL DATA	•	•
FECAL COLFORN (LOGIO(/100 ML)) FECAL STREPTOCOCCI (LOGIO(/100 ML))	0.54 0.30	0.53 0.45
BIOMASS MEASUREMENTS	•	•
BICHASS, PLANKTON (GM/CU N) CHLCROPHYLL-A (UG/L) CHLCRCPHYLL-B (UG/L)	1.3	1.3
CHLOROPHYLL-C (UG/L)	< 0.1	0.1

## LAKE SEMINOLE NATER QUALITY MANAGEMENT STUDY ##
CHOPS OF ENGINEERS (CONTRACT DACHUL-75-C-0101) PHASE 1, CYCLE 3

DATA FROM DUPLICATE ANALYSES

TABLE E-3a

PANAMETER HAME (UNITS)	STATION 6-A 7/20/78	57 AT 1011 6-8 7/20/78	STATION 12-A 7/10/78	5TATION 12-3 7/10/76
PHYSICAL DATA	•	•	•	:
LABURATORY DATA				•
. • CELOR (PT-CO UNITS) • TOPALPITY, MACH TUPRIDIMETER (FTU) • TOTAL FILTEPABLE RESIDUE (MGZL)	55. 19.70 67.	53. 16.03 62.	14. 0.53 67.	14. 0, 45 55.
TOTAL NOW ILTERABLE RESIDUE (MG/L)	10.	< 10.	16.	10.
CHEMICAL DATA	•	•	•	•
MINERALS AND METALS	•	•	•	•
AIKALINITY, TOTAL (MG CACO3/L) GULFATF, DISSULVED (MG SO4/L) SULFIDL, TETAL (MG SZL)	21. 6. < 0.1	21. 6. 7.1	32. < 1. < 2.1	37. < 1. < 0.1
· IPON, DISSELVED (UG FEZL) · IPON, TOTAL (UG FEZL) · PAULYNESE, DISSELVED (UG MNZL)	70 510 < 50	8) 790 < 50	< 50 80 < 50	< 50 110 < 50
WANGANTEE TOTAL (UG MAZE) ZING, TUTAL (UG ZAZE)	70 30	70 33	< 50 20	< 50 10
NUTELENTS	•	•	•	•
* (ALBON, DISSULVED CREATE (MG CZL) * (ALBON, TOTAL DISANTE (MG CZL) * MITSULTA, TOTAL AMMONIA (MG NZL)	7. 5. 0.06	5. 5. 0.05	6. 7. 0.03	7. 8. 0.04
* NITROGEN, HITPATF +NITRITE (MG NZL) * NITROSHIGSPHATC: DISSOLVED (MG PZL) * PRESHIGHUG: TOTAL (MG PZL)	<0.01 <0.01 0.05	<0.01 <0.01 0.07	7.10 <2.01	0.11 . <0.01
BITTOGICAL DATA	:	:		:
BACTUPICEOGICAL DATA				:
FICAL STREET (LEGIO(ZIOOME)) FICAL STREET (LEGIO(ZIOOME))	0.44	0.44	<0.00 -0.16	<0.00
INFOMATO ME ASUREMENTS	•	:	:	:
· cer panerryt L=A (USZE) · cer propert L=B (USZE) · certerphantt =C (USZE)	7.9 1.3 (0.1	7.7 1.1 0.1	2.0 0.6 0.3	2.3 0.6 0.5

TABLE E-3b

∂AMAMETER NAME (UNITS)	STATION 17-A 7/17/78	57 AT 109 17-9 7/17/78	STATION 17-A 7/18/76	STATION 10-9 7/16/78
PHYSICAL DATA		•	•	
LADORATION DATA				•
CLUBH (PT-CD UNITS) TURNITY, HACH TURNIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MGZE)	5.00 92.	24. 4.(?) 93.	42. 8.33 97.	34. 0.40 73.
TOTAL NONE ELTERABLE RESIDUE (MG/L)	< 10.	< 10.	11.	14.
CHEMICAL DATA				• •
MINEPALS AND METALS				
ALKALIMITY, TOTAL (MG CACODZE) SHEFATE, DISSHEVED (MG SDAZE) SULFINE, TOTAL (MG SZE)	57. 2. < 0.1	56. 2. < 0.1	42. 7. < 0.1	76. ( 0.1
FORM DISCLARD (UG FEZL) FORM TOTAL (UG FEZL) MANDANESCE DISSGLAD (UG MAZE)	70 390 < 50	62 623 < 50	< 50 จะว	< 50 740 < 50
MARGARESE, TOTAL (UG MNZL) ZINC, TOTAL (UG ZNZL)	< 50 20	< 5) 30	170 20	170 30
NUTPECHTS				
CAMBRIL DISSULVED OPGANIC (MG CZL) CAMBRIL TOTAL ORGANIC (MG CZL) MITROGEN, INTAL AMMONIA (MG NZL)	5. 0.05	4. 5. 0.05	4. 5. 0.11	5. 5. 2.19
NITPOSEN, NITPATE+NITRITE (MG NZL) OPTHOPHOSPHATE, DISSOLVED (MG PZL) PHOSPHURUS, TOTAL (MG PZL)	0.52 0.03 0.05	0 • 5 ? 0 • 5 3 0 • 6 7	0 - 1 4 <0 - 0 1 0 - 2 6	0.14 0.91 0.17
STOLOGICAL DATA				
BACTER ILLUGICAL DATA	•	•		
FECAL COLFORM (LOGIO(/100ML)) FECAL STRONTEROCCI (LOGIO(/100ML))	0.20	0.23 0.19	0.00	-0.72 0.47
NIOMATO MEASUREMENTS	•	•	•	•
CLEOTOPHYLL-A (NGZL) CLEOTOPHYLL-O (UGZL) CLEOTOPHYLL-C (UGZL)	3.2 3.6 < 0.1	7.3 ( ).1	0.9 0.9	9.0 1.5

TABLE E-4a

CORPS OF ENGINEERS (CONTRACT DACWOI-78-C-0101) PHASE 1. CYCLE 4

DATA FROM DUPLICATE ANALYSES

PARAMETER NAME (UNITS)	STATION 1-A 8/17/78	STATION 1-B 8/17/78	STATION 12~A 8/15/78	STATION 12-8 8/15/78
PHYSICAL DATA		•		
LABORATORY DATA				
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIHETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	47. 5.10 66.	47. 8.00 52.	18. 0.65 61.	17. 0.85 55.
TOTAL NONFILTERABLE RESIDUE (MG/L)	17.	11-	3.	4.
CHEMICAL DATA				
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACO3/L) CPLCFIDE (MG CL/L) SULFATE, DISSOLVED (MG SO4/L)	19. 4. 5.	18. 4. 5.	32. 3. < 1.	33. 3. < 1.
SULFIDE. TOTAL (MG S/L) CALCILM. TOTAL (MG CA/L) IRON. PISSOLVED (UG FE/L)	< 0.1 0.1 90	< 0.1 0.1 90	< 0.1 2.5 < 50	< 0.1 2.5 < 50
IRCN. TOTAL (UG FE/L) MAGNESIUM. TOTAL (MG MG/L) MANGANESE. DISSULVED (UG MN/L)	890 2.8 < 50	670 2.8 < 50	80 0.2 < 50	110 0.2 < 50
PANGANESE, TUTAL (UG MN/L) PCTASSIUM, TOTAL (MG K/L) SODIUM, TOTAL (MG NA/L)	140 1.6 4.33	130 1.6 4.40	< 50 < 0.1 1.17	50 < 0.1 1.13
ZINC. TOTAL (UG ZN/L)	30	20	10	< 10
NUTRIFNTS			·	:
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) NITFOGEN, /OTAL AMMONIA (MG N/L)	< 8. 6. 0.09	< 8. 5. 0.10	< 2. 7. 0.03	< 2. 7. <0.01
NITROGEN, NITRATE+NITRITE (MG N/L) NITROGEN, TOTAL KJELDAHL (MG N/L) ORTHOPHOSPHATE, DISSCLVED (MG P/L)	0.11 0.5 <0.01	0.11 0.5 <0.01	<0.01 <0.01	<0.01 0.4 <0.01
PHOSPHORUS. TOTAL (MG P/L)	0.05	0.05	0.04	<0.01
BIOLOGICAL DATA	•	•	•	•
BACTERIOLOGICAL DATA	•	•	:	
FECAL COLFOR4 (LOGIO(/100ML)) FECAL STREPTOCUCCI (LOGIO(/100ML))	0.25 0.28	0.20	<0.00 <0.00	<0.00 <0.00
BIOMASS HEASUREMENTS	•	•	•	
CHLORGPHYLL-A (UG/L) CHLOROPHYLL-B (UG/L) CHLORCPHYLL-C (UG/L)	9.6 0.7 < 0.1	9.7 0.6 < 0.1	1.8 0.4 < 0.1	1.8 0.6 0.1

TABLE E-4b

PARAMETER NAME (UNITS)	STATION 17-A 8/14/76	17-8	STATION 19-A 8/16/78	STATION 19-8 8/16/78
PHYSICAL DATA				•
LABURATORY DATA			· •	
CULOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	60. 14.00 64.	60. 8.20 71.	30. 3.20 51.	29. 11.00 62.
TOTAL NONFILTERABLE RESIDUE (MG/L)	29.	25.	10.	11.
CHEMICAL DATA				
MINERALS AND METALS				
ALKALINITY, TOTAL (NG CACO3/L) CHLCRIDE (MG CL/L) SULFATE, DISSOLVED (MG SD4/L)	25. 4. 2.	25. 4. 1.	36. 4.	39. 4. 3.
SLLFIDE. TOTAL (MG S/L) CALCIUM. TOTAL (MG CA/L) IRCN. DISSOLVED (UG FE/L)	< 0.1 31.3 440	< 0.1 31.0 400	< 0 •1 28 •2 < 50	< 0.1 31.3 < 50
IRGN. TOTAL (UG FE/L) MAGNESIUM. TOTAL (MG MG/L) MANGANESE, DISSULVED (UG MN/L)	1910 1.9 < 50	2180 1.3 < 50	580 2.8 < 50	730 2.9 < 50
MANGANESE. TOTAL (UG MN/L) PCTASSIUM. TOTAL (MG K/L) SCD[UM. TOTAL (MG NA/L)	270 1-1 3-27	240 1.2 3.33	80 1 -1 3 - 60	130 1.1 3.57
ZINC. TOTAL (UG ZN/L)	30	30	20	30
NUTRIENTS	:	:	•	
CARBON. DISSOLVED DRGANIC (MG C/L) CARBON. TOTAL ORGANIC (MG C/L) NITRUSEN. TOTAL AMMONIA (MG N/L)	< 9. 8. 0.03	8. 8. <0.01	< 6. 6. 0.08	4. 5. 0.08
NITECGEN. NITERATE+NITEITE (MG N/L) NITEC(EN. TOTAL KJELDAHL (MG N/L) DETHCEHOSPHATE, DISSOLVED (MG P/L)	0.28 0.5 0.03	0.28 0.5 0.03	0.17 0.5 <0.01	0.17 0.6 <0.01
PHOSPHORUS. TOTAL (MG P/L)	0.08	0.10	0.04	0.04
SIOLOGICAL DATA	•	•	•	•
BACTERIDLOGICAL DATA	•	•	:	:
FECAL COLFORY (LOGIO(/100 ML)) FECAL STREPTUCUCCI (LOGIO(/100 ML))	0.45	0.45	-(-11 0-45	0.08
BIOMASS MEASUREMENTS	:	:	•	•
CHLCREPHYLL-A (UG/L) CHLCFCPHYLL-U (UG/L) CHLCREPHYLL-C (UG/L)	0.2 0.1	0.2	13-1	12.0

TABLE E-5a

** Lake Seminole Nathin Quality Management Study **
Ching of Engineer's (Contract Dagwoi-79-C-0101) Phase 1. Cycle 5
Data FROM DUPLICATE ANALYSES

PARAMETER NAME (UNITS)	STATION 14-4 9/27/78	STATION 14-2 9/27/78	STATION 17-A 9/25/73	STATION 17-3 3/25/78
PHYSICAL DATA				,
LAGDRATORY DATA				
COLOR (PT-CO UNITS) TURNIBLEY, HACH TURNIDIMSTER (FTU) TOTAL FILT PARLE RESIDUE (MGZL)	9. 5.60 123.	11. 5.33 113.	14. 1.57 94.	13. 1.60 85.
TOTAL NONFILTERABLE RESIDUE (MG/L)	7.	8.	2.	< 2.
CHEMECAL DATA				
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACOBYL) SULFATE, TOTAL (MG SO47L) IRON, DISSOLVED (UG FE/L)	95. < 1. < 50	91. < 1. < 50	51. 3. < 50	53. 3. < 50
IRON: TOTAL (US FEZL) MANGANESC: DISSOLVED (US MNZL) MANGANESC: TOTAL (UG MNZL)	140 < 50 < 50	160 < 50 60	150 < 50 < 50	140 < 50 < 50
ZINC. TOTAL (UG ZNZL)	20	20	10	20
אין קור מאר דו אין דער אין דער אין דער אין דער אין דער אין דער אין דער אין דער אין דער אין דער אין דער אין דער			•	
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) NITROGEN, TOTAL AMMONIA (MG N/L)	< 19. 16. <0.01	10. 16. <0.01	< 2. 2. 0.03	< 2. 1. 0.04
NITROGIN, NITRATE+NITRITE (MG N/L) NITRIGIN, TOTAL KUELDAHL (MG N/L) DATHOPHOSCHATE, DISSOLVED (MG P/L)	0.35 0.2 <0.01	0.35 0.3 <0.01	0.53 0.3 0.07	0.53 0.5 0.27
PHOSPHORUS, TOTAL (MG PZE)	0.01	<0.01	0.09	0.75
HERLOGICAL DATA		•		
BACTOS IOLOGICAL DATA		- •	•	•
FECAL COLFORA (LOGIO(ZIONME)) FECAL STREETSCOCCI (LOGIO(ZIONME))	0.00 <0.00	0.37 <0.90	0.95 1.71	0.85 2.04
BIOMASS MEASUREMENTS	•	•	:	•
+ CHED 20044FF-4 (USVE) + CHED 20044FF-3 (USVE) + CHED 20044FF-4 (UGVE)	3.4 0.4 2.1	9.6 0.7 < 0.1	6.5 1.1 0.1	6.9 0.6 (0.1

TABLE E-5b

PARAMETER NAME (UNITS)	STATION 19-A 9/26/78	STATION 19-9 9/26/78
PHYSICAL DATA		,
ATAC YECTARCHAL		
COLOR (PT-CO UNITS) TURBIDITY. HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	20. 6.10 77.	ia. 6.20 83.
TOTAL NONFILTERABLE RESIDUE (MG/L)	5.	11.
CHEMICAL DATA		
MINERALS AND METALS	•	
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, TOTAL (MG SD4/L) IRON, DISSOLVED (UG FE/L)	42. 5. < 50	44. < 50
IRON, TOTAL (UG FE/L) MANGANESE, DISSOLVED (UG MN/L) MANGANESE, TOTAL (UG MN/L)	250 < 50 120	24 <i>0</i> < 50 140
ZINC. TOTAL (UG ZN/L)	10	10
NUTRIENTS	•	
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL DESANIC (MG C/L) NITROGEN, TOTAL AMMONIA (MG N/L)	5. 7. 0.04	6. 0.09
NITADGEN. NITRATE+NITRITE (MG N/L)	0.09	0.08
<ul> <li>NITROGEN. TOTAL KJELDAML (MG N/L)</li> <li>ORTHOPHOSPHATE. DISSULVED (MG P/L)</li> </ul>	0.5	0.6
PHOSPHORUS. TOTAL (MG P/L)	0.04	0.04
BIDLOGICAL DATA	•	
BACTERICLOGICAL DATA	:	
FECAL COLFORM (LOGID(/100ML)) FECAL STREPTPCOCC; (LOGIO(/100ML))	0.30 3.26	0.30 3.23
BIOMASS MEASUREMENTS	•	
CHLORDPHYLL-A (US/L) CHLORDPHYLL-A (US/L) CHLORDPHYLL-C (US/L)	5.4 0.9 0.1	8.5 1.3 0.1

TABLE E-6a

OF LAKE SEMINDLE WATER QUALITY MANAGEMENT STUDY OF ENGINEERS (CONTRACT DACWO1-70-C-0101) PHASE 1. CYCLE 6

DATA FROM DUPLICATE ANALYSES

PARAMETER MANE (UNITS)	STATION 75-A 11/30/78	STATION 75-8 11/30/78	STATION 45-A 11/29/78	STATION 95-B 11/29/78
PHYSICAL DATA				
LABORATORY DATA			,	
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDINETER (FTU) TCTAL FILTERABLE RESIDUE (MG/L)	65. 10.00 90.	9.50 86.	50. 10.00 75.	45. 6.10 79.
TCTAL NONFILTERABLE RESIDUE (MG/L)	••	< 0.	21.	10.
CHEMICAL DATA				
MINEFALS AND METALS				
ALKALINITY, TOTAL (MG CACO3/L) CHLCRIDE (MG CL/L) SULFATE, DISSOLVED (MG \$04/L)	26. 13.	32. 6. 13.	32. 11.	31. 11.
CALCIUM. TOTAL (MG CA/L) IRON. DISSOLVED (UG FE/L) IRON. TOTAL (UG FE/L)	6.0 70 970	5.7 80 770	5.9 130 650	5.9 90 630
MAGNESIUM. TUTAL (MG MG/L) MANGAMESE, DISSOLVED (UG MN/L) MANGANESE, TATAL (UG MN/L)	1.3 110 150	1.3	1 • 2 50 90	1.2 < 50 90
PCTASSIUM, TOTAL (MG K/L) SCOILF, TOTAL (MG NA/L) ZINC, TOTAL (UG ZN/L)	2.7 12.40 10	2.8 12.50 < 10	2.5 10.40 < 10	2.5 6.80 < 10
NUTRIENTS		•		•
CARDEN. DISSOLVED DRGAHIC (MG C/L) CARBEN. TOTAL DRGANIC (MG C/L) NITROGEN. TOTAL AMMONIA (MG N/L)	< 12. 9. 0.02	< 11. 6.02	6. 7. 0. 07	6. 7. 0.07
NITRGGEN. NITRATE+NITRITE (MG N/L) NITROGEN. TOTAL KJELDAHL (MG N/L) OFTMOPHOSPHATE. DISSCLVED (MG P/L)	0.26 0.6 <0.01	0.28 0.6 0.04	0.25 0.3 <0.01	0.27 0.4 <0.01
PECSPHORUS. TOTAL (NG P/L)	0.04	0.05	c.03	0.05
BIOLUGICAL DATA	•	•	•	•
BIOMASS MEASUREMENTS	•		•	•
CHLORCPHYLL-A (UG/L) CHLOROPHYLL-U (UG/L) CHLOROPHYLL-C (UG/L)	7.6 2.1 0.3	7.2 1.1 0.3	10.5 3.8 1.6	10.6 2.4 0.9

TABLE E-6b

PARAMETER NAME (UNITS)	STATION 17-A 11/26/78	17-B
PHYSICAL DATA		•
LASORATORY DATA		
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	18. 3.50 91.	21. 4.90 90.
TCTAL NONFILTERABLE RESIDUE (MG/L)	< 2.	< 0.
CHEMICAL DATA		
MINERALS AND METALS		
ALKALINITY. TOTAL (MG CACO3/L) CHLORIDE (MG CL/L) SULFATE. DISSOLVED (MG 304/L)	57. 6. 2.	52. 6. 2.
CALCILM. TOTAL (MG CA/L) IRCN. DISSOLVED (UG FE/L) IFCN, TOTAL (UG FE/L)	17.0 260 440	15.7 250 540
MAGNESIUM. TOTAL (MG MG/L) MANGANESE. DISSOLVED (UG MM/L) MANGANESE. TOTAL (UG MM/L)	0.9 < 50 < 50	0.9 < 50 < 50
POTASSIUM. TOTAL (MG K/L) SODIUM. TOTAL (MG NA/L) ZINC. TOTAL (UG ZN/L)	1.0 4.33 < 10	1.0 4.47 < 10
NUTRIENTS		
CARREN. DISSOLVED ORGANIC (MG C/L) CARBON. TOTAL ORGANIC (MG C/L) NITEGEN. TOTAL AMMONIA (MG N/L)	0.04	3. 5. 0.02
NITROGEN. NITRATE+NITRITE (MG N/L) NITROGEN, TOTAL KJELOAHL (MG N/L) ORTHOPHOSPHATE. DISSOLVED (MG P/L)	0.60 0.2 0.05	0.56 0.2 0.06
PHOSFHORUS, TOTAL (MG P/L)	0.08	0.09
BIOLOGICAL DATA		
BIOMASS MEASUREMENTS		
CHLOROPHYLL-A (UG/L) CHLOROPHYLL-B (UG/L) CHLOROPHYLL-C (UG/L)	0.9 0.3 < 0.1	1.3 0.6 < 0.1

TABLE E-7
LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
CORPS OF ENGINEERS (CONTRACT DACWO1-78-C-0101)
Phase I, Cycle 1
SPIKED SAMPLE RECOVERIES

Parameter	Station	Spike Value		Analytical Resul	ts
- ·	Number		Sample	Spiked Sample	% Recovery
Zinc,	08	0.06	0.03	0.09	96.5
Total	11	0.06	0.03	0.09	104
(mg Zn/1)	15	0.04	0.01	0.05	102
Iron,	02	0.30	0.15	0.49	109
Dissolved	08	0.35	0.19	0.56	104
(mg Fe/l)	15	0.80	0.38	1.26	107
Iron,	02	3.00	1.57	4.66	102
Total	11	3.00	1.77	4.65	97.2
(mg Fe/1)	15	3.00	1.39	4.37	99.7
Manganese,	01	0.02	0.01	0.04	109
Dissolved	08	0.04	0.02	0.06	100
(mg_Mn/l)	11	0.02	0.01	0.04	111
Manganese	01	0.16	0.08	0.24	97.8
Total	02	0.16	0.07	0.22	98.5
(mg Mn/1)	80	0.16	0.09	0.25	100

TABLE E-8

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY

CORPS OF ENGINEERS (CONTRACT DACWO1-78-C-0101)

Phase I, Cycle 2

SPIKED SAMPLE RECOVERIES

Parameter	Station	Spike Value		Analytical Resul	
	Number		Sample	Spiked Sample	% Recovery
Zinc,	13	0.05	0.02	0.06	88.2
(mg Zn/1)	16	0.05	0.05	0.07	68.8*
Iron,	13	0.80	0.09	0.89	100
Dissolved (mg Fe/l)	16	0.80	0.26	1.05	98.9
Iron, Total	13	2.50	0.35	2.43	85.1
(mg Fe/1)	16	2.50	0.96	3.34	96.4
Manganese,	13	0.03	0.01	0.04	104
Dissolved (mg Mn/l)	16	0.03	0.02	0.05	111
Manganese,	13	0.20	0.03	0.21	92.9
Total (mg_Mn/1)	16	0.10	0.04	0.14	104

^{*}This sample was spiked in the laboratory resulting in:

0

0.02

0.05

0.07

100

The percent recoveries were calculated using the concentrations to three significant figures.

TABLE E-9

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY

CORPS OF ENGINEERS (CONTRACT DACWO1-78-C-0101)

Phase I, Cycle 3

SPIKED SAMPLE RECOVERIES

Parameter	Station	Spike Value	7	nalytical Resul	ts
	Number		Sample	Spiked Sample	% Recovery
Zinc, Total	15	0.05	0.02	0.07	109.1
(mg Zn/l)	09	0.05	0.02	0.07	95.8
Iron,	15	0.40	<0.01	0.42	102.5
Dissolved (mg Fe/l)	09	0.40	0.10	0.52	104.0
Iron, Total	15	2.50	0.08	2.45	95.1
(mg Fe/1)	09	2.50	0.35	2.49	87.3
Manganese,	15	0.03	<0.01	0.04	115.2
Dissolved (mg Mn/l)	09	0.06	0.02	0.07	97.3
Manganese,	15	0.10	0.05	0.17	112.5
Total (mg Mn/l)	09	0.20	0.12	0.31	97.2

The percent recoveries were calculated using the concentrations to three significant figures.

TABLE E-10

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY

CORPS OF ENGINEERS (CONTRACT DACWO1-78-C-0101)

Phase I, Cycle 4

SPIKED SAMPLE RECOVERIES

Parameter	Station	Spike Value		Analytical Resul	
	Number		Sample	Spiked Sample	% Recovery
Zinc, Total	14	0.05	<0.01	0.06	107
(mg Zn/1)	16	0.10	0.02	0.12	103
Iron,	14	0.08	0.20	0.26	90.2
Dissolved (mg Fe/l)	16	0.20	0.03	0.25	112
Iron, Total	14	0.50	0.73	1.25	102
(mg Fe/1)	16	0.40	1.25_	1.48	89.3
Manganese,	14	0.03	0.01	0.05	109
Dissolved (mg Mn/l)	16	0.03	<0.01	0.04	104
Manganese,	14	0.10	0.04	0.14	93.5
Total (mg Mn/1)	16	0.10	0.09	0.19	102
Potassium,	14	1.5	0.6	2.1	100
Total (mg K/l)	16	1.5	1.1	2.7	103
Sodium	14	4.00	1.43	5.30	97.0
Total (mg Na/l)	16	4.00	3.27	7.07	95.0

The percent recoveries were calculated using the concentrations to three significant figures.

TABLE E-11

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY

CORPS OF ENGINEERS (CONTRACT DACWO1-78-C-0101)

Phase I, Cycle 5

SPIKED SAMPLE RECOVERIES

Parameter	Station	Spike Value	Analytical Results		
	Number		Sample	Spiked Sample	% Recovery
Zinc, Total (mg Zn/1)	07	0.10	0.01	0.11	103.7
	12	0.10	0.02	0.12	100.9
Iron, Dissolved (mg Fe/l)	07	0.20	0.04	0.24	100.4
	12	0.04	<0.01	0.04	97.7
Iron, Total (mg Fe/l)	07	1.0	0.29	1.18	91.5
	12	1.0	0.12	1.13	100.4
Manganese Dissolved (mg Mn/l)	07	0.03	0.08	0.11	100.0
	12	0.03	<0.01	0.04	100.0
Manganese, Total (mg Mn/l)	07	0.2	0.14	0.36	103.8
	12	0.1	0.11	0.23	106.5

The percent recoveries were calculated using the concentrations to three significant figures.

TABLE E-12

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY

CORPS OF ENGINEERS (CONTRACT DACWO1-78-C-0101)

Phase I, Cycle 6

SPIKED SAMPLE RECOVERIES

Parameter	Station	Spike Value	Analytical Results		
	Number		Sample	Spiked Sample	% Recovery
Zinc, Total (mg Zn/l)	03	0.05	<0.01	0.05	100
	09S-A	0.05	<0.01	0.05	100
ron, Dissolved (mg Fe/l)	03	0.04	0.06	0.14	138
	095	0.16	0.11	0.22	83.5
<pre>Iron, Total (mg Fe/l)</pre>	03	0.50	0.95	1.50	104
	09S-A	0.50	0.65	1.35	117
Manganese Dissolved (mg Mn/l)	03	0.06	<0.05	0.06	102
	098	0.06	<0.05	0.11	99.1
Manganese, Total (mg Mn/l)	03	0.10	0.07	0.18	107
	09S-A	0.20	0.09	0.30	103

The percent recoveries were calculated using the concentrations to three significant digits.

APPENDIX F

IN SITU VERTICAL PROFILES AND ISOPLETHS

WATER AND AIR RESEARCH INC GAINESVILLE FL F/G A/A WATER QUALITY MANAGEMENT STUDIES LAKE SEMINOLE, APRIL-NOVEMBER --F.TC(U) AD-A104 408 SEP 81 DACW01-78-C-0101 UNICLASSIFIED ACF-80-10 ML 4 ... 6 AD04408

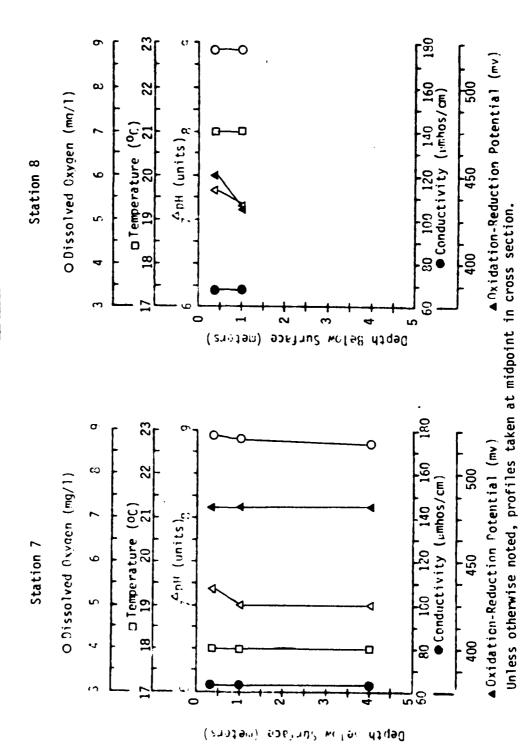
## LIST OF FIGURES

FIGURE	DESCRIPTION	PAGE NO.
F-1	Dissolved Oxygen, Temperature, pH, Conductivity, and Oxidation-Reduction Potential Vertical Profiles, Taken <u>In Situ</u> Cycle 1, April 17-21, 1978	F-1
F-2	Dissolved Oxygen, Temperature, pH, Conductivity, and Oxidation-Reduction Potential Vertical Profiles, Taken <u>In Situ</u> Cycle 2, June 5-7, 1978	F-5
F-3	Dissolved Oxygen, Temperature, pH, Conductivity, and Oxidation-Reduction Potential Vertical Profiles, Taken <u>In</u> <u>Situ</u> Cycle 3, July 17-20, 1978	F-9
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F-5	Dissolved Oxygen, Temperature, pH, Conductivity, and Oxidation-Reduction Potential Vertical Profiles, Taken <u>In Situ</u> Cycle 5, September 25-27, 1978	F-17
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1

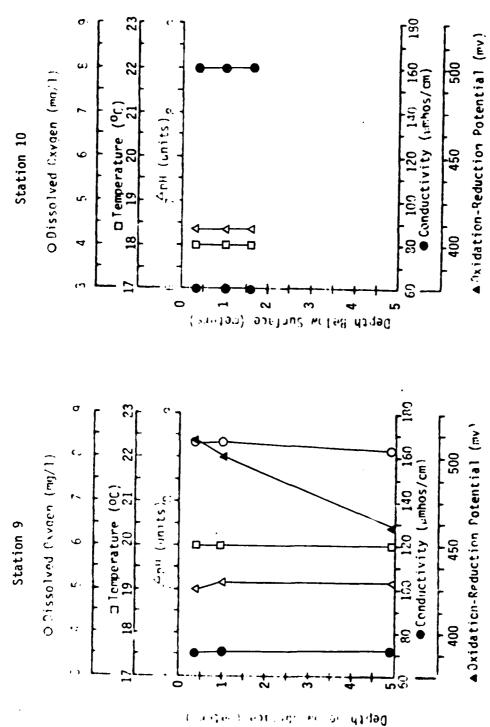
DISSOLVED OXYGEN, TEMPERATURE, PH, CONDUCTIVITY, AND OXIDATION-REDUCTION POTENTIAL VERTICAL PROFILES, TAKEN IN SITU CYCLE 1, APRIL 17-21, 1978. FIGURE F-1a.

4



- 4

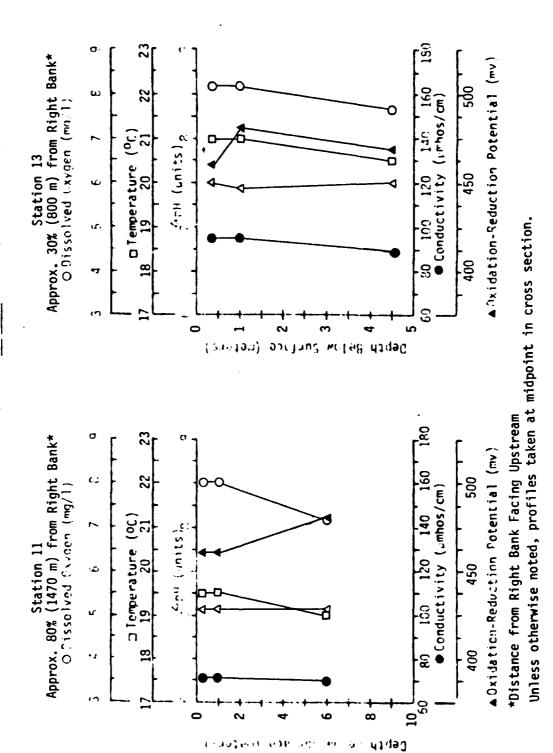
DISSOLVED OXYGEN, TEMPERATURE, PH, CONDUCTIVITY, AND OXIDATION-REDUCTION POTENTIAL VERTICAL PROFILES, TAKEN IN SITU CYCLE 1, APRIL 17-21, 1978. FIGURE F-1b.



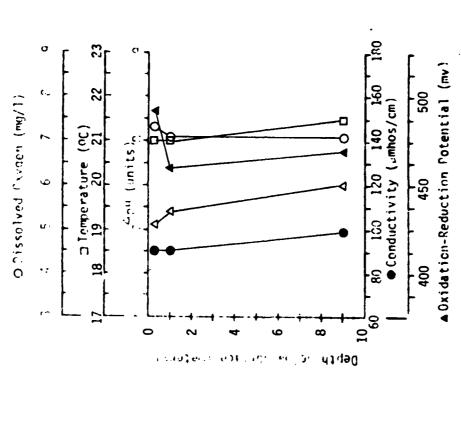
Unless otherwise noted, profiles taken at midpoint in cross section.

DISSOLVED OXYGEN, TEMPERATURE, PH, CONDUCTIVITY, AND OXIDATION-REDUCTION POTERLIAL VERTICAL PROFILES, TAKEN IN SITU CYCLE 1, APRIL 17-21, 1978. FIGURE F-1c.

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Station 15

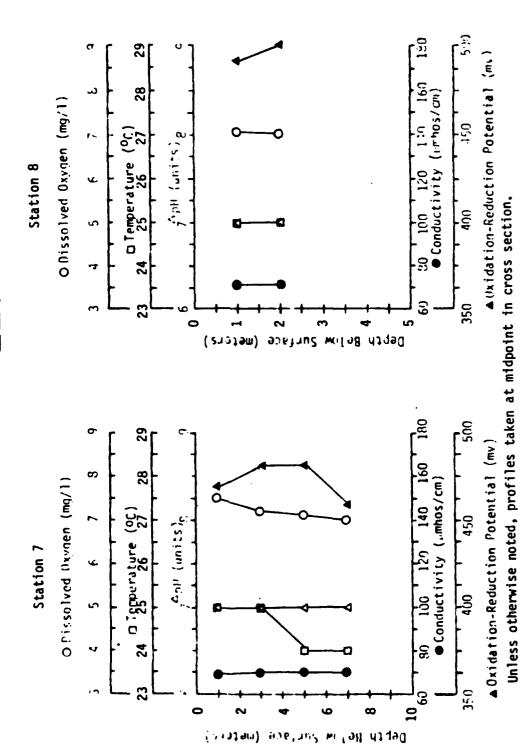


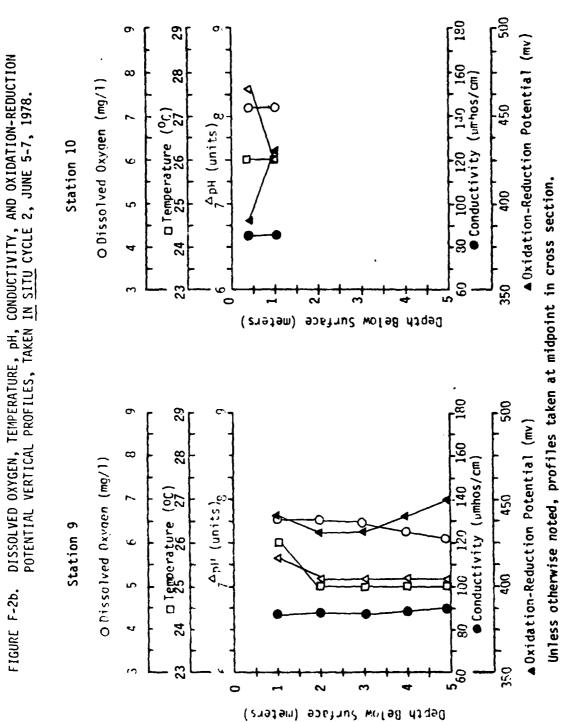
Unless otherwise noted, profiles taken at midpoint in cross section.

DISSOLVED OXYGEN, TEMPERATURE, PH. CONDUCTIVITY, AND OXIDATION-REDUCTION POTENTIAL VERTICAL PROFILES, TAKEN IN SITU CYCLE 2, JUNE 5-7, 1978. FIGURE F-2a.

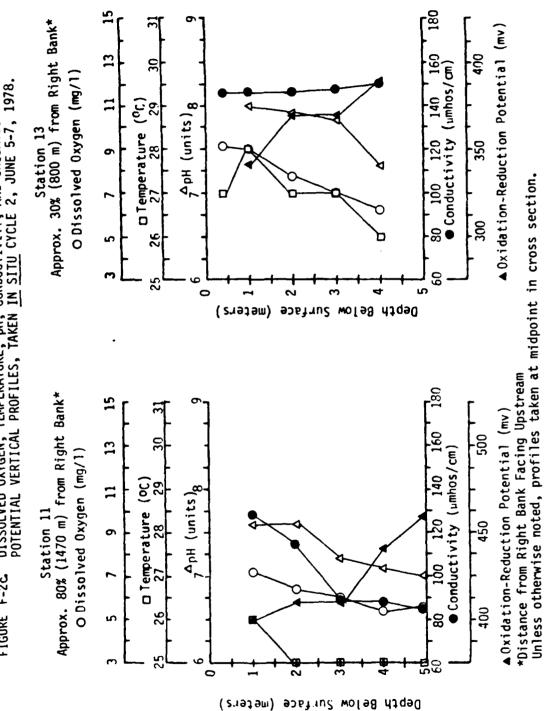
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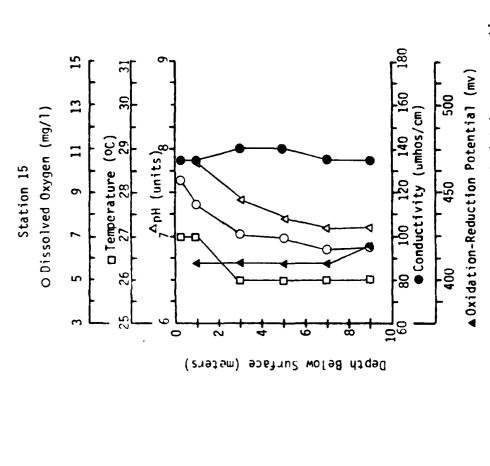




DISSOLVED OXYGEN, TEMPERATURE, PH, CONDUCTIVITY, AND OXIDATION-REDUCTION POTENTIAL VERTICAL PROFILES, TAKEN IN SITU CYCLE 2, JUNE 5-7, 1978. FIGURE F-2c

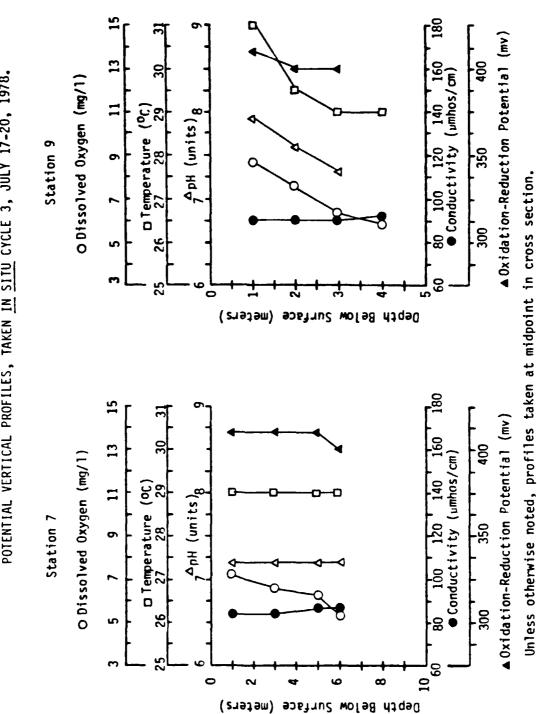


DISSOLVED OXYGEN, TEMPERATURE, PH, CONDUCTIVITY, AND OXIDATION-REDUCTION POTENTIAL VERTICAL PROFILES, TAKEN IN SITU CYCLE 2, JUNE 5-7, 1978. FIGURE F-2d.

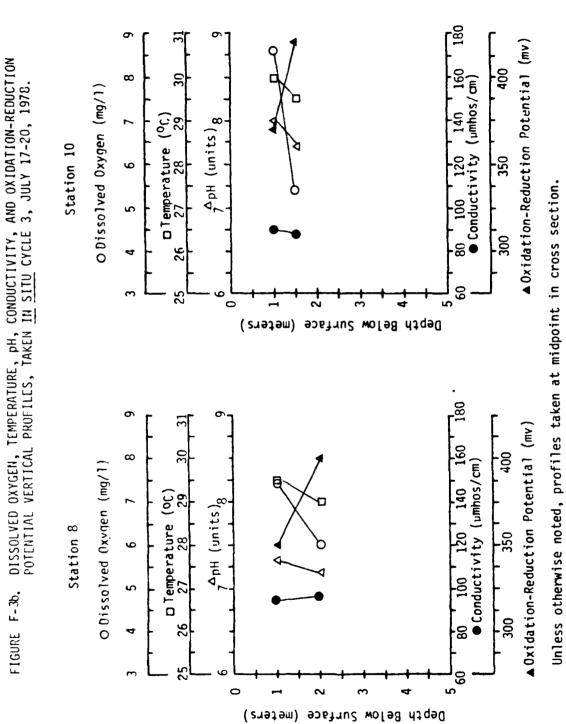


Unless otherwise noted, profiles taken at midpoint in cross section.

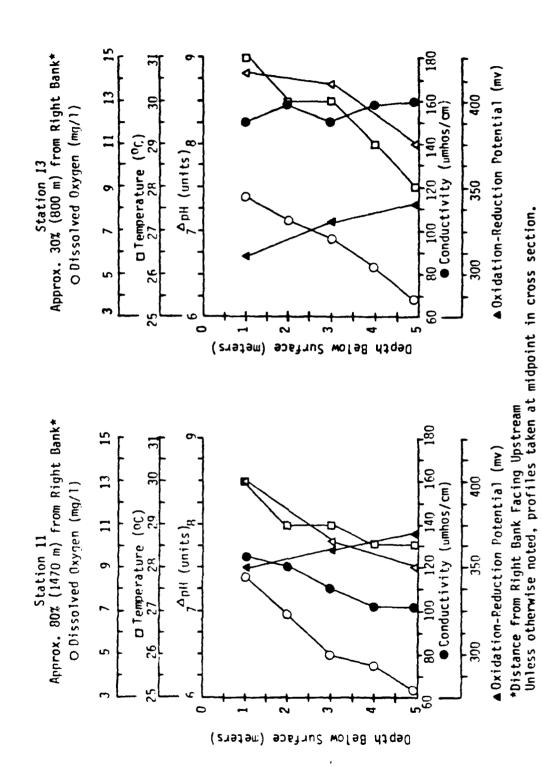
DISSOLVED OXYGEN, TEMPERATURE, PH, CONDUCTIVITY, AND OXIDATION-REDUCTION POTENTIAL VERTICAL PROFILES, TAKEN IN SITU CYCLE 3, JULY 17-20, 1978. FIGURE F-3a.



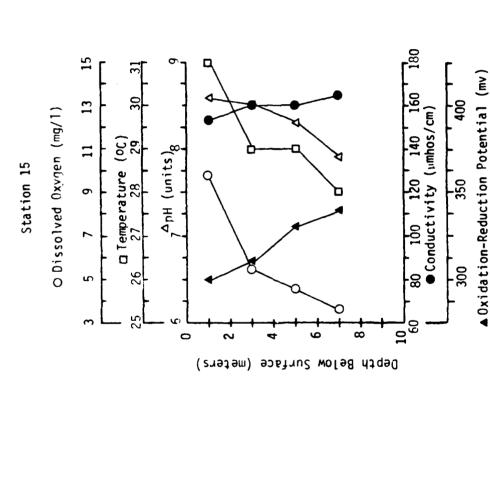
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DISSOLVED OXYGEN, TEMPERATURE, pH, CONDUCTIVITY, AND OXIDATION-REDUCTION POTENTIAL VERTICAL FROFILES, TAKEN III SITU CYCLE 3, JULY 17-20, 1978. FIGURE F-3c.

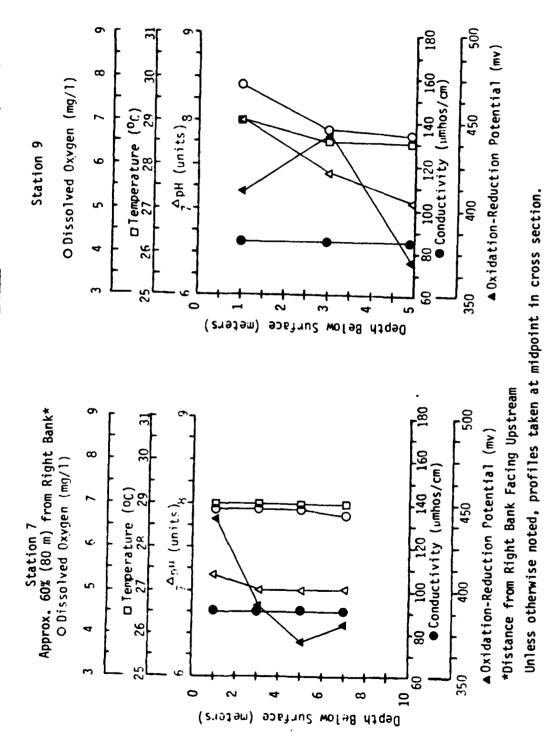


DISSOLVED OXYGEN, TEMPERATURE, PH, CONDUCTIVITY, AND OXIDATION-REDUCTION POTENTIAL VERTICAL PROFILES, TAKEN IN SITU CYCLE 3, JULY 17-20, 1978. FIGURE F-3d.

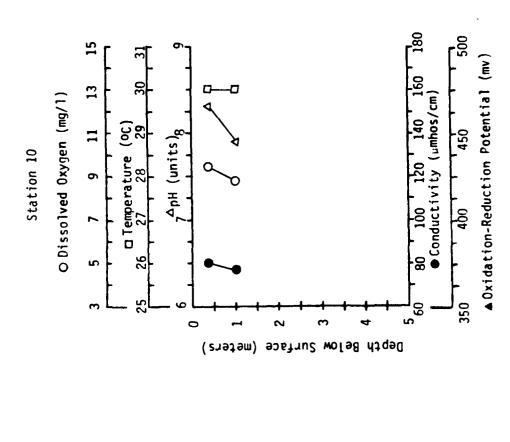


Unless otherwise noted, profiles taken at midpoint in cross section.

DISSOLVED OXYGEN, TEMPERATURE, PH, CONDUCTIVITY, AND OXIDATION-REDUCTION POTENTIAL VERTICAL PROFILES, TAKEN IN SITU CYCLE 4, AUGUST 14-17, 1978. FIGURE F-4a.



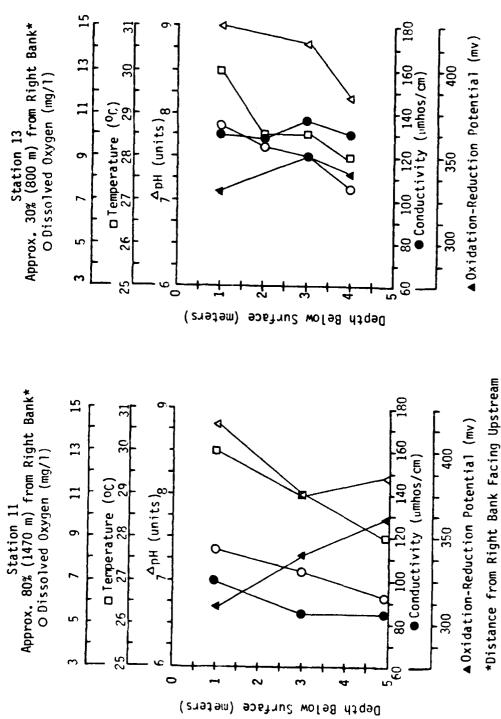
F-13



Unless otherwise noted, profiles taken at midpoint in cross section.

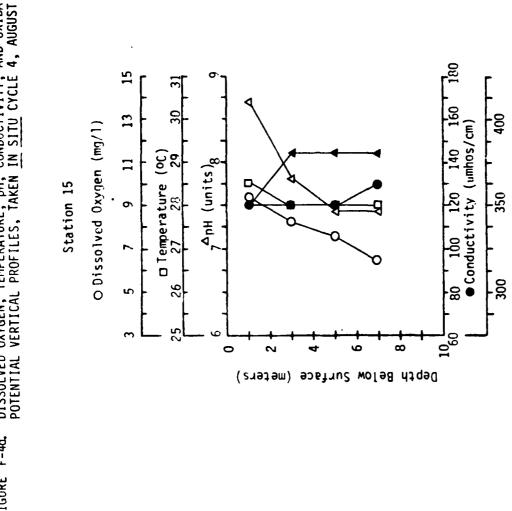
DISSOLVED OXYGEN, TEMPERATURE, PH, CONDUCTIVITY, AND OXIDATION-REDUCTION POTENTIAL VERTICAL PROFILES, TAKEN IN SITU CYCLE 4, AUGUST 14-17, 1978. FIGURE F-4c

1



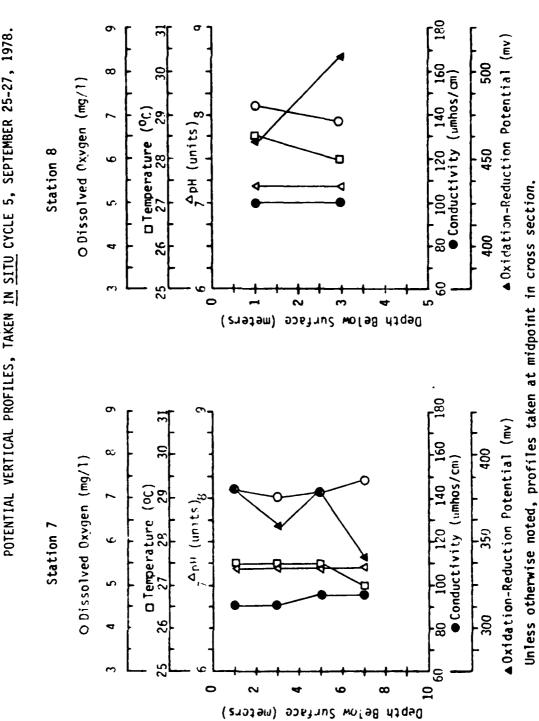
Unless otherwise noted, profiles taken at midpoint in cross section,

DISSOLVED OXYGEN, TEMPERATURE, PH, CONDUCTIVITY, AND OXIDATION-REDUCTION POTENTIAL VERTICAL PROFILES, TAKEN IN SITU CYCLE 4, AUGUST 14-17, 1978. FIGURE F-4d.

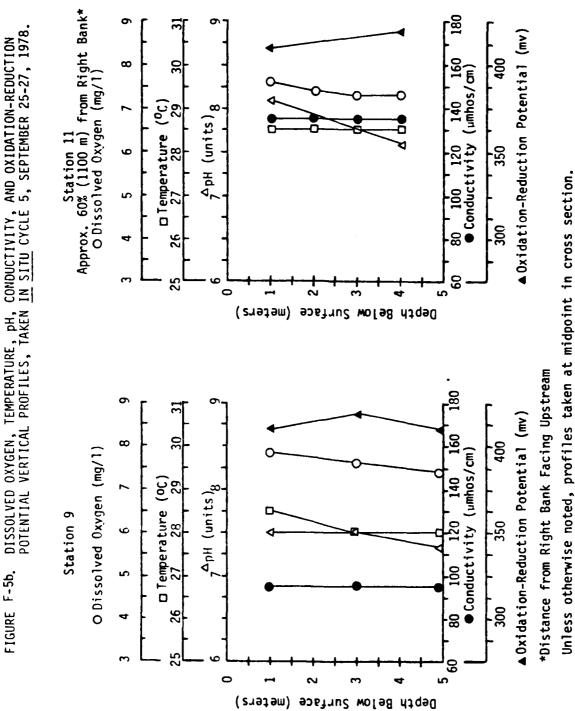


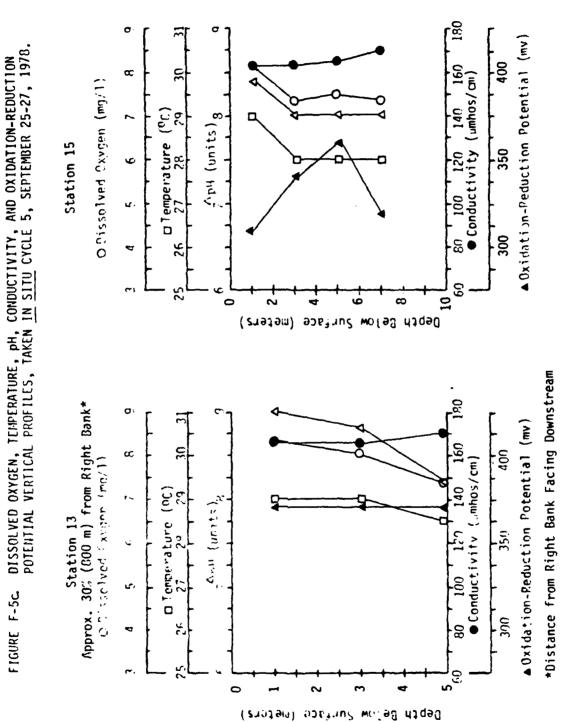
Unless otherswise noted, profiles taken at midpoint in cross section. ▲Oxidation-Reduction Potential (mv)

DISSOLVED OXYGEN, TEMPERATURE, pH, CONDUCTIVITY, AND OXIDATION-REDUCTION POTENTIAL VERTICAL PROFILES, TAKEN IN SITU CYCLE 5, SEPTEMBER 25-27, 1978. FIGURE F-5a.

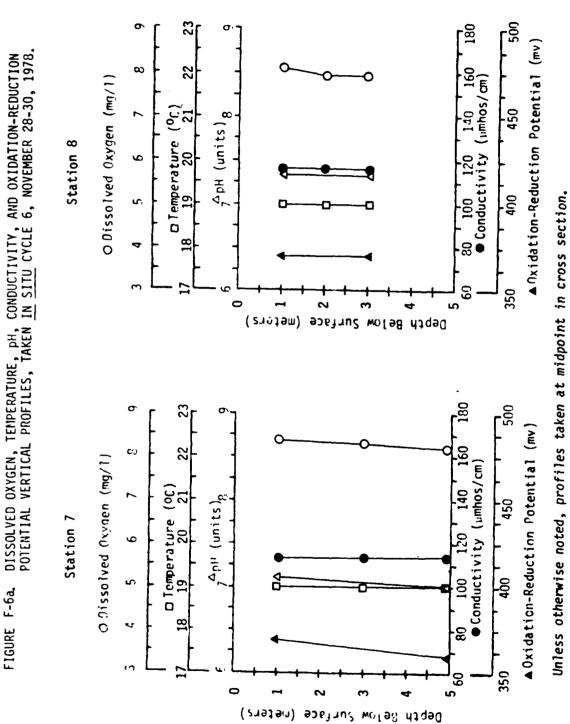


CONDUCTIVITY, AND OXIDATION-REDUCTION IN SITU CYCLE 5, SEPTEMBER 25-27, 1978. DISSOLVED OXYGEN, TEMPERATURE, PH, POTENTIAL VERTICAL PROFILES, TAKEN

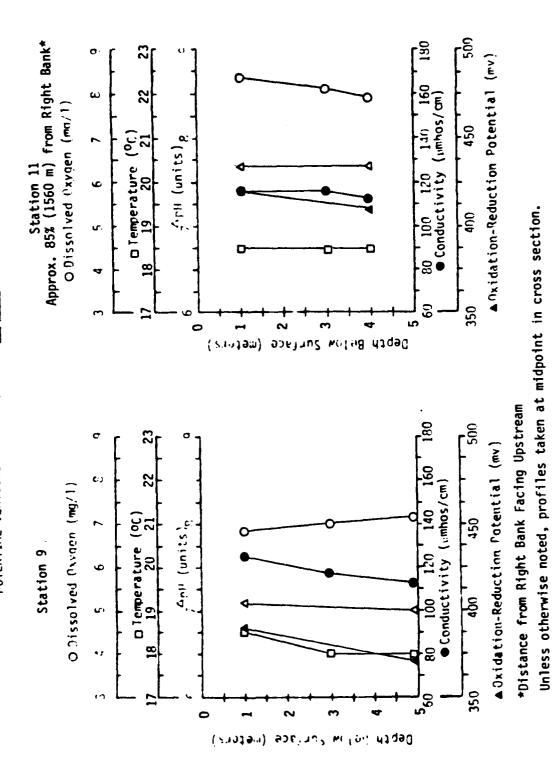




Unless otherwise noted, profiles taken at midpoint in cross section.



DISSOLVED OXYGEN, TEMPERATURE, PH, CONDUCTIVITY, AND OXIDATION-REDUCTION POTENTIAL VERTICAL PROFILES, TAKEN IN SITU CYCLE 6, MOVEMBER 28-30, 1978. FIGURE F-6b.



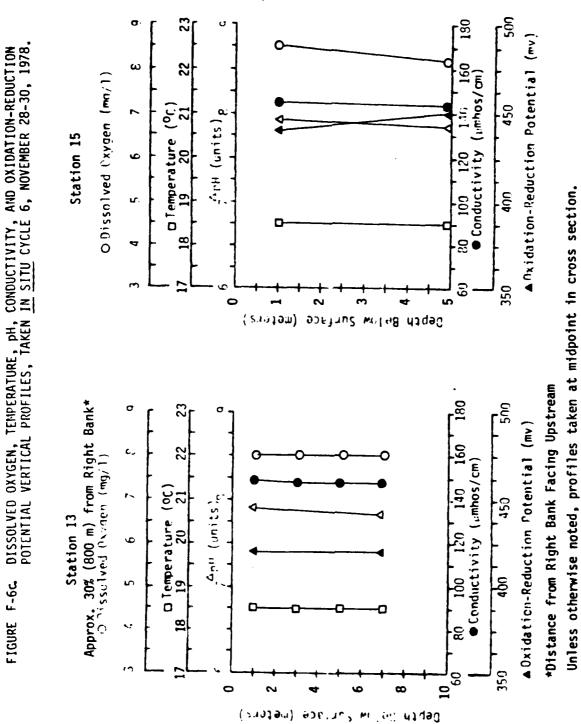
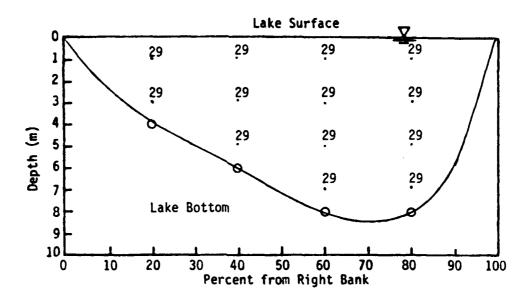


FIGURE F-7. TEMPERATURE, DISSOLVED OXYGEN, pH, SPECIFIC CONDUCTANCE, AND OXIDATION-REDUCTION POTENTIAL ISOPLETHS TAKEN IN SITU, CYCLE 4, AUGUST 14-17, 1978 AT STATION 7.

# a) Isotherms (^OC)



### b) Dissolved Oxygen (mg/l)

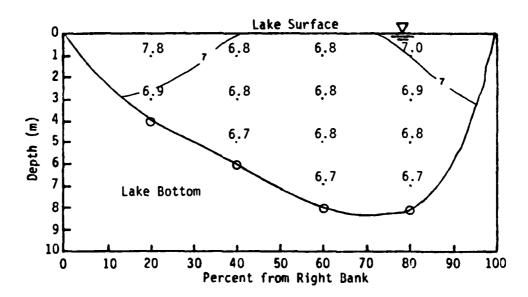
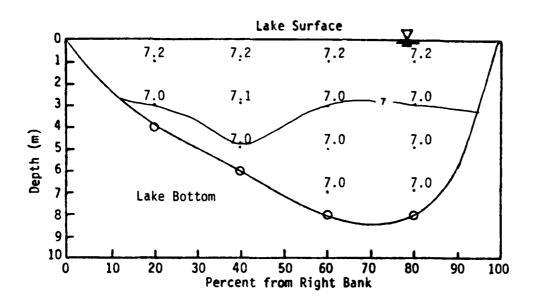


FIGURE F-7. TEMPERATURE, DISSOLVED OXYGEN, pH, SPECIFIC CONDUCTANCE, AND OXIDATION-REDUCTION POTENTIAL ISOPLETHS TAKEN IN SITU, CYCLE 4, AUGUST 14-17, 1978 AT STATION 7.

c) pH



d) Specific Conductance (µmhos/cm @25°C)

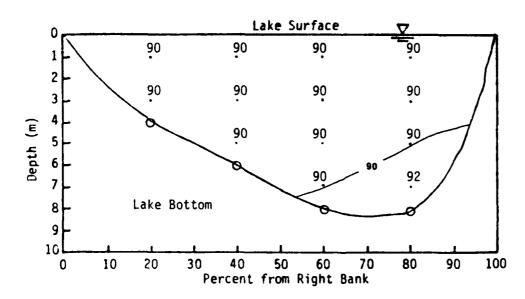


FIGURE F-7. TEMPERATURE, DISSOLVED OXYGEN, pH, SPECIFIC CONDUCTANCE, AND OXIDATION-REDUCTION POTENTIAL ISOPLETHS TAKEN IN SITU, CYCLE 4, AUGUST 14-17, 1978 AT STATION 7.

#### e) Oxidation Reduction Potential (mv)

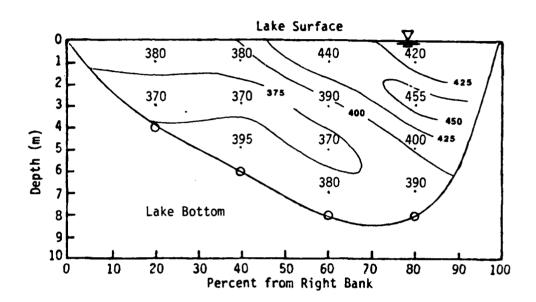
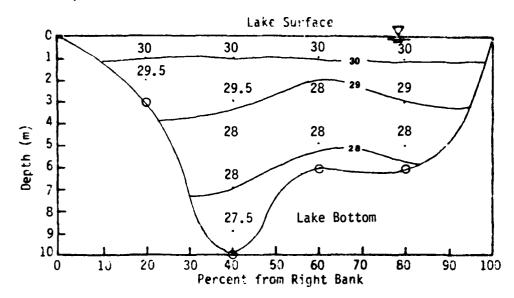


FIGURE F-8. TEMPERATURE, DISSOLVED OXYGEN, pH, SPECIFIC CONDUCTANCE, AND OXIDATION-REDUCTION POTENTIAL ISOPLETHS TAKEN IN SITU, CYCLE 4, AUGUST 14-17, 1978 AT STATION 11.

## a) Isotherms (°C)



#### b) Dissolved Oxygen (mg/l)

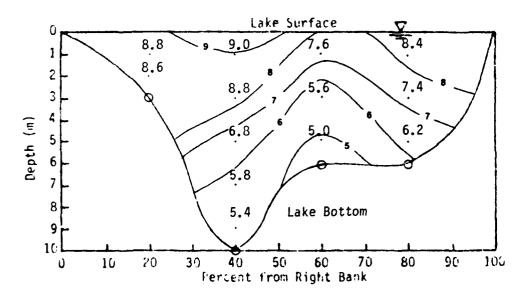
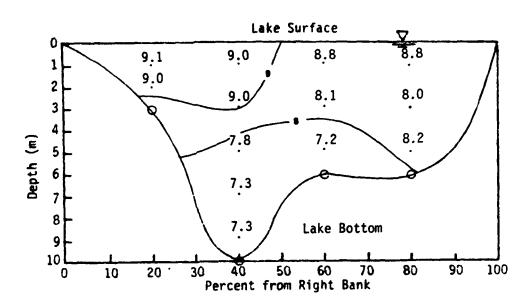


FIGURE F-8. TEMPERATURE, DISSOLVED OXYGEN, pH, SPECIFIC CONDUCTANCE, AND OXIDATION-REDUCTION POTENTIAL ISOPLETHS TAKEN IN SITU, CYCLE 4, AUGUST 14-17, 1978 AT STATION 11.

c) pH



d) Specific Conductance ( $\mu mho/cm @25^{O}C$ )

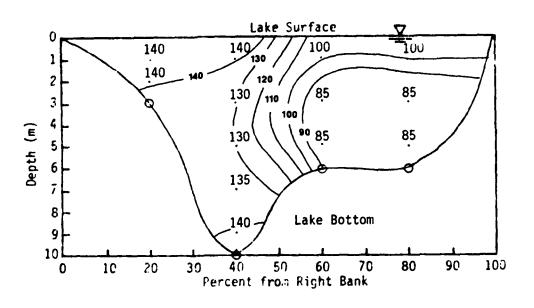


FIGURE F-8. TEMPERATURE, DISSOLVED OXYGEN. ph. SPECIFIC CONDUCTANCE, AND OXIDATION-REDUCTION POTENTIAL ISOPLETHS TAKEN IN SITU, CYCLE 4, AUGUST 14-17, 1978 AT STATION 11.

#### e) Oxidation Reduction Potential (mv)

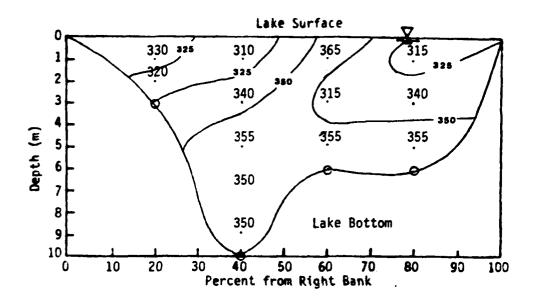
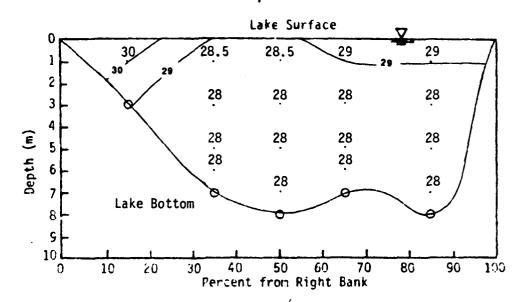


FIGURE F-9. TEMPERATURE, DISSOLVED OXYGEN, ph, SPECIFIC CONDUCTANCE, AND OXIDATION-REDUCTION POTENTIAL ISOPLETHS TAKEN IN SITU, CYCLE 4, AUGUST 14-17, 1978 AT STATION 15.

#### a) Isotherms (°C)



#### b) Dissolved Oxygen (mg/l)

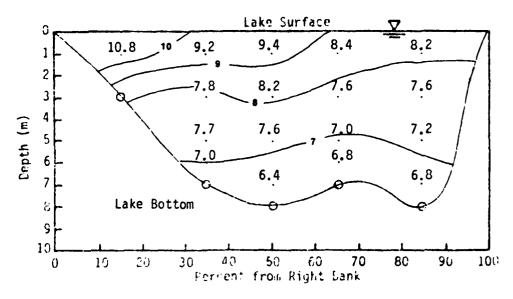
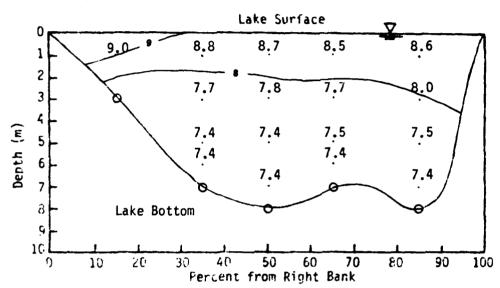


FIGURE F-9. TEMPERATURE, DISSOLVED OXYGEN, pH, SPECIFIC CONDUCTANCE, AND OXIDATION-REDUCTION POTENTIAL ISOPLETHS TAKEN IN SITU, CYCLE 4, AUGUST 14-17, 1978 AT STATION 15





# d) Specific Conductance (µmho/cm @25°C)

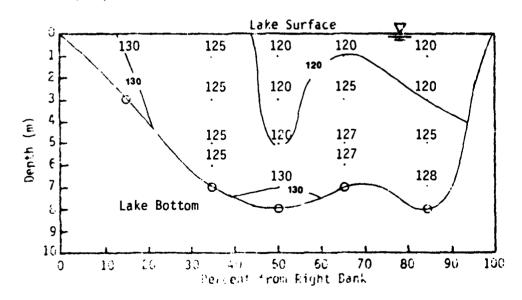
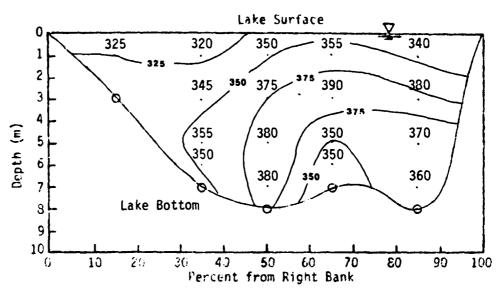


FIGURE F-9. TEMPERATURE, DISSOLVED OXYGEN, pH, SPECIFIC CONDUCTANCE, AND OXIDATION-REDUCTION POTENTIAL ISOPLETHS TAKEN IN SITU, CYCLE 4, AUGUST 14-17, 1978 AT STATION 15.

# e) Oxidation Reduction Potential (mv)



APPENDIX G
ALGAL GROWTH POTENTIAL TEST RESULTS

## LIST OF TABLES

TABLE	DESCRIPTION	PAGE NO.
G-1	Algal Growth Potential Test Results, Cycle 1, April 17-21, 1978	G-1
G-2	Algal Growth Potential Test Results, Cycle 3, July 17-20, 1978	G-12
G-3	Algal Growth Potential Test Results Cycle 5. September 25-27, 1978	G-23

TABLE G-1

ALGAL GROWTH POTENTIAL

Date Collected 4/18/78 Date Processed 4/21/78

Cycle 1 Station 6

Growth Response, mg/l Ash-Free Dry Wt.

•				מו טיינון יאבן	3				
		12	12 Day Count			14	Day Co		Overall
_		eplicate	9		¥	eplicat	a		1
Treatment	-	2 3	3	$\overline{x} \pm 2\sigma$	1	1 2 3	3	x ± 20	x ± 2σ
LW	9.85	9.21	9.38	9.48 ± 0.66	9.56	9.43	9.76	.85 9.21 9.38 9.48 ± 0.66 9.56 9.43 9.76 9.58 ± 0.33 9.53 ± 0.48	9.53 ± 0.48
LW+P	15.71	16.23	16.51	16.51 ± 0.81	15.32	16.37	15.87	.71 $16.23$ $16.51$ $16.51$ $\pm 0.81$ $\pm 15.32$ $\pm 16.37$ $\pm 15.87$ $\pm 1.05$ $\pm 1.05$ $\pm 1.00$	16.00 ± 0.90
LW+N	9.63	9.56	9.21	9.47 ± 0.45	9.53	9.28	9.85	9.55 ± 0.57	$9.51 \pm 0.47$
LW+P+N	29.46	28.71	30.58	29.58 ± 1.88	33.91	32.56	31.58	.46 28.71 30.58 29.58 ± 1.88 33.91 32.56 31.58 32.68 ± 2.34 31.13 ± 3.89	31.13 ± 3.89
LW+E	9.67	9.73	9.52	9.64 ± 0.22	9.83	16.6	9.25	.67 9.73 9.52 9.64 $\pm$ 0.22 9.83 9.91 9.25 9.66 $\pm$ 0.72 9.65 $\pm$ .048	9.65 ± .048
1M+P+E	16.21	17.03	16.32	16.52 ± 0.89	15.42	16.91	15.42	.21 17.03 16.32 16.52 ± 0.89 15.42 16.91 15.42 15.94 ± 1.72 16.22 ± 1.39	16.22 ± 1.39
LW+N+E	9.52	16.6	9.65	$9.69 \pm 0.40$	9.32	9.48	9.51	52 9.91 9.65 9.69 $\pm$ 0.40 9.32 9.48 9.51 9.44 $\pm$ 0.20 9.57 $\pm$ 0.40	9.57 ± 0.40
LW+P+N+E	30.32	31.56	30.21	30.70 ± 1.50	31.56	33.21	32.51	32 31.56 30.21 30.70 ± 1.50 31.56 33.21 32.51 32.42 ± 1.66 31.56 ± 2.36	31.56 ± 2.36

e o i ke	Hd	Specific
LW = Lake Water P = 0.05 mg/l P spike N = 1.00 mg/l N spike E = 1.00 mg/l EDTA spike	= 0.05 mg/l = 1.00 mg/l = 1.00 mg/l	1 /6m 00 - 1 -

factors in the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the	٠	
Parameter and Units	Before Processing	After Processing
Hd	7.2	7.2
Specific Conductance (umho cm ⁻¹ )	78	63
Total Kjeldahl Nitrogen (mg N $1^{-1}$ )	0.53	0.47
$NH_2-N \ (mg \ N \ 1^{-1})$	0.09	0.10
NO ₂ + NO ₃ - N (mg N 1 ⁻¹ )	0.283	0.322
Dissolved Ortho-phosphate (mg P 1 ⁻¹ )	0,016	0.023
Total Phosphorus (mg P $1^{-1}$ )	0.045	0.040

TABLE G-1 (cont.)

ALGAL GROWTH POTENTIAL

Date Collected 4/19/78 Date Processed 4/21/78

Station 7

Cycle

				Growth Response, mg/l Ash-Free Dry Wt.	ponse.	mq/1 As	h-Free	Dry Wt.	
		12	12 Day Count			F	14 Day Count		Overall
	۲	enlicat	٥		1	eplicat	١		
eatment	-	1 2	3	x ± 20	1	1 2 3	3	$\bar{x} \pm 2\sigma$	x ± 20
3	8.65	8.91	9.32	8.65 8.91 9.32 8.96 ± 0.68 8.95 8.92 8.63 8.83 ± 0.35 8.89 ± 0.50	8.95	8.92	8,63	8.83 ± 0.35	8.89 ± 0.50
d+ <b>M</b>	13.65	13.78	13.42	13.62 ± 0.36	13.31	13.61	13.42	13.45 ± 0.30	13.65 13.78 13.42 13.62 $\pm$ 0.36 13.31 13.61 13.42 13.45 $\pm$ 0.30 13.53 $\pm$ 0.35
N+N	8.92	8.31	8.49	8.92 8.31 8.49 8.57 ± 0.63 9.51 9.23 9.16 9.18 ± 0.09 8.88 ± 0.78	9.51	9.23	9.16	9.18 ± 0.09	8.88 ± 0.78
M+D+N	30.01	30.21	31.05	$30.01$ $30.21$ $31.05$ $30.42 \pm 1.10$ $30.32$ $29.25$ $29.34$ $29.64 \pm 1.19$ $30.03 \pm 1.34$	30.32	29.25	29,34	29.64 ± 1.19	30.03 ± ;/34
W+E	8.72	8.35	8.46	8.51 ± 0.38	8.72	8.39	9.05	8.72 ± 0.66	8.72 8.35 8.46 8.51 ± 0.38 8.72 8.39 9.05 8.72 ± 0.66 8.62 ± 0.53
3+d+M	14.20	13.56	13.43	14.20 13.56 13.43 13.73 ± 0.82 13.79 14.51 13.96 13.92 ± 1.22 13.83 ± 0.48	13.79	14.51	13.96	13.92 ± 1.22	13.83 ± 0.48
W+N+E	9.06	9.05	9.31	9.06 9.05 9.31 9.14 ± 0.29 8.72 9.21 9.06 9.00 ± 0.50 9.07 ± 0.40	8.72	9.21	9.06	9.00 ± 0.50	9.07 ± 0.40
LADANAE	20.61	30 42	31 00	30.56 ± 0.97	3) 06	79 71	30 56	30.44 ± 1.36	30.56 ± 0.97

		Before	Arter
	Parameter and Units	Processing	Processing
spike snike	H	7.1	7.1
TA spike	Specific Conductance (umho cm ⁻¹ )	53	46
	Total Kjeldahl Nitrogen (mg N $1^{-1}$ )	09.0	0.50
	NH ₂ -N (mg N 1 ⁻¹ )	0.15	0.08
	$NO_2^- + NO_2^ N \text{ (mg N 1}^-\text{)}$	0.265	0.275
	Dissolved Ortho-phosphate (mg P 1 1)	0.015	0.021
	Total Phosphorus (mg P $1^{-1}$ )	0.045	0.027

TABLE G-1 (cont.)

## ALGAL GROWTH POTENTIAL

Date Processed 4/21/78
Date Collected 4/19/78
Station 9

Cycle_1

				Growth Response, mg/l Ash-Free Dry Wt.	sponse.	mq/1 Asl	h-Free 1	Dry Wt.	
		12	12 Day Count			F	14 Day Count	unt	Overall
		1 2 2 2 2 2				Policati	a		
Treatment	-	2 3	٣	$\overline{x} \pm 2\sigma$ 1 2	-	2 3	3	$\bar{x} \pm 2\sigma$	x ± 20
3	7.75	7.62	7.21	7.53 ± 0.56	5 8.06	8.21	8.02	8.10 ± 0.20	75 7.62 7.21 7.53 ± 0.56 8.06 8.21 8.02 8.10 ± 0.20 7.81 ± 0.73
I W+D	15,83	15.21	16.00	15.68 ± 0.8	3 16.52	16.18	16.43	$16.38 \pm 0.35$	83 15.21 16.00 15.68 ± 0.83 16.52 16.18 16.43 16.38 ± 0.35 16.03 ± 0.58
N+3-	7.98	7.81	7.99	7.93 ± 0.20	7.21	7.83	7.84	7.63 ± 0.72	8 7.81 7.99 7.93 ± 0.20 7.21 7.83 7.84 7.63±0.72 7.78 ± 0.58
N+D+M1	28.42	29.46	28.13	28.67 ± 1.4	) 29.74	30.05	31.06	30.28 + 1.38	42 29.46 28.13 28.67 ± 1.40 29.74 30.05 31.06 30.28 ± 1.38 29.48 ± 2.16
N+8	7.65	8.05	8.10	7.93 ± 0.4	9 7.55	7.62	7.83	7.67 ± 0.29	65 8.05 8.10 7.93 ± 0.49 7.55 7.62 7.83 7.67 ± 0.29 7.80 ± 0.47
3+b+E	15.95	16.28	15.55	15.93 ± 0.7	3 15.45	16.32	15.41	15.73 ± 1.03	95 16.28 15.55 15.93 ± 0.73 15.45 16.32 15.41 15.73 ± 1.03 15.83 ± 0.83
LW+N+E	7.59	7.83	7.46	7.63 ± 0.3	8 7.95	7.86	7.42	7.74 ± 0.56	59 7.83 7.46 7.63 ± 0.38 7.95 7.86 7.42 7.74 ± 0.56 7.69 ± 0.45
LW+P+N+E	29.95	29.47	30.03	29.82 ± 0.6	1 30.16	30.89	29.32	30.12±1.57	95 29.47 30.03 29.82 ± 0.61 30.16 30.89 29.32 30.12 ± 1.57 30.00 ± 1.12

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	***************************************	Before	After Processing
LW = Lake Water	Parameter and Units	1 0003 3 1113	
P = 0.05  mg/l P spike	Hu	7.1	7.1
R = 1.00  mg/l N spike $E = 1.00  mg/l$ EDTA spike	Specific Conductance (umho cm ⁻¹ )	78	64
	Total Kieldahl Nitrogen (mg N $1^{-1}$ )	0.57	0.39
	NH3-N (mg N 1-1)	11.0	0.11
	NO_ + NO N (mg N 1 1)	0.296	0.306
	Dissolved Ortho-phosphate (mg P 1-1)	0.011	0.018
	Total Phosphorus (mg P $1^{-1}$ )	0.059	0.057

TABLE G-1 (cont.)

ALGAL GROWTH POTENTIAL

Station 10

Date Collected 4/20/78 Date Processed 4/21/78

13.53 *0.89 8, 19 ± 0, 83 8.34 ± 0.80  $8.35 \pm 0.60$ 30,53 ±1,20 29.49 ± 1.01 14,02 ±0.91 Overa 1 13.45 ± 1.13  $8.55 \pm 0.28$ 8.70 ± 0.52 29.42 ± 1.23 ±0.49  $13.93 \pm 1.37$ 8.30 ±0.60 ±0.37  $\bar{x} \pm 2\sigma$ Growth Response, mg/l Ash-Free Dry Wt 30.04 8.67 13.05 30.15 8.34 8.93 30.12 8.43 14.54 8.42 14.10 28.98 8.65 8,75 13.19 29.83 8.92 7.96 30.15 13.21 29.15 8,12 8.62 8.65 14.05 8.53  $8.12 \pm 0.40$ 13.61 ± 0.80 7.83 ± 0.28 ± 0.79 ± 0.99 ± 0.29 ± 0.28 ± 0.71 × ± 2σ 29.56 8.39 31.02 8.01 14.11 Day Count 7.68 14.15 31.20 8.31 14.01 29,65 8.15 8.54 8.13 7.95 29.03 8.03 13.96 8, 65 13.21 30.57 13.62 14.23 7.87 7.86 7.99 31.30 7.91 30.01 **Treatment** LW+P+N+E LW+P+M LW+N+E LW+P+E LW+E LW+P LW+N 7.86

Background Water Quality

LW = Lake Water
P = 0.05 mg/l P spike
N = 1.00 mg/l N spike
E = 1.00 mg/l EDTA spike

Parameter and Units	uerore Processing	At <b>te</b> r Processing
Н	6.7	6.7
Specific Conductance ( $\mu mho cm^{-1}$ )	99	56
Total Kjeldahl Nitrogen (mg N $1^{-1}$ )	0.74	0.41
$NH_3-N \ (mg \ N \ 1^{-1})$	11.0	0.08
$NO_2^- + NO_3^ N \text{ (mg N 1}^-\text{I)}$	0.242	0.274
Dissolved Ortho-phosphate (mg P $1^{-1}$ )	0.00	0.020
Total Phosphorus (mg $P$ 1 $^{-1}$ )	0.080	0.055

TABLE G-1 (cont.)

7

ALGAL GROWTH POTENTIAL

Date Collected 4/20/78 Date Processed 4/21/78

Cycle 1 Station 11

				OF OWLER ACCOUNTS AND A DOLL COLLAR		tario Santa	7 7 7	+0.	[[eray]]
		12	12 Day Count	ınt		1	CO CO		
	£	eplicat	a	1		eplicat			× 20
Treatment		2 3	3	$x \pm 2\sigma$ 1 2 3	1	2	~	x = 60	- v = co
3	9.95	10.10	9.85	9.97 ± 0.25	9.21	9.91	9.45	9.52 - 0.71	9.95 10.10 9.85 9.97 ± 0.25 9.21 9.91 9.45 9.52 ± 0.71 9.75 ± 0.68
0+M1	15 91	16 94	15 92	16.26 ± 0.59	15.21	16.32	16.15	15.89 ± 1.20	1 16 94 15 92 16 26 ± 0.59 15.21 16.32 16.15 15.89 ± 1.20 16.01 ± 1.14
LITE	6	10.15	10.26	10 08 ± 0 46	10 13	9 25	9.43	9.60 ± 0.93	0 02 10 15 10 25 10 08 ± 0 45 10 13 9 25 9 43 9 50 ± 0 94 ± 0.84
	30.00	2 2	21.20	21 51 4 1 50	21 42	20 15	28.61	29 73 ± 2.98	3. 35 35 30 31 32 31 51 4 1 50 31 42 30 15 28 61 29 73 ± 2.98 30.62 ± 2.87
LW+F+14	32.35	30.91	31.60	31.31 - 1.30	31.5	62:13	200	7717	00 0 4 00 0 5
1.W+E	9.56	10.21	10.53	$10.10 \pm 0.99$	10.13	9.95	10.81	10.30 ± 0.91	9.56   10.21   10.53   10.10 $\pm$ 0.99   10.13   9.95   10.81   10.30 $\pm$ 0.91   10.20 $\pm$ 0.88
I W+P+F	16.21	16.03	16.32	16.19 ± 0.29	16.91	15.21	15.95	16.02 ± 1.70	1 16.03 16.32 16.19 $\pm$ 0.29 16.91 15.21 15.95 16.02 $\pm$ 1.70 16.11 $\pm$ 1.11
I W+N+F	9.27	8.26	9.97	9.17 ± 1.72	9.95	10.15	10.32	10.14 ± 0.37	8.26 9.97 9.17 ± 1.72 9.95 10.15 10.32 10.14 ± 0.37 9.65 ± 1.54
1 LIADANAE	23 21	32 15	36 17	33.84 ± 4.17	30.21	30.32	31.95	30.83 ± 1.95	1 32 15 36 17 33.84 ± 4.17 30.21 30.32 31.95 30.83 ± 1.95 32.33 ± 4.40

	•	
	Before	After
Darameter and Units	Processing	Processing
	7.1	7.1
specific Conductance (umbo cm ⁻¹ )	79	63
Total Vieldahl Nitrogen (mg N 1-1)	0.76	0.64
NH _N (mn N 1-1)	0.07	0.12
NO - NO - N (mg N 1-1)	0.274	0.306
not not not the phosphate (mo P 1-1)	0.00	0.023
Total Description (mg P 1-1)	0.087	0.058
incal rilospiral as (mg -		

TABLE G-1 (cont.)

ALGAL GROWTH POTENTIAL

Date Collected 4/20/78 Date Processed 4/21/78

				Growth Response, mg/l Ash-Free Dry Wt.	h Res	ponse,	mg/l As	h-Free	Dry Wt.		
		15	12 Day Count	unt			14 Day Count	Day Co	unt		Overall
,		Replicat	e.			ř	eplicat	اوا			
Treatment		2 3	3		Q	1	$x \pm 2\sigma$ 1 2 3	~	x ± 20	20	x ± 20
Ľ	1.75	1.32	1.40	1,49 ± (	0.46	1.95	1.03	1.27	1.42 ±	0 95	75 1.32 1.40 1.49 ± 0.46 1.95 1.03 1.27 1.42 ± 0.95 1.45 + 0.67
LW+P	2.58	2.13	2.96	2.56 ± (	3.83	2.65	2.02	1.83	2.17 ±	98	58 2.13 2.96 2.56 ± 0.83 2.65 2.02 1.83 2.17 ± 0.86 2.36 ± 0.87
LW+N	1.63	1.24	1.05	1.31 ± (	7.59	1.02	1.15	1.32	1.16	25	63 1.24 1.05 1.31 ± 0.59 1.02 1.15 1.32 1.16 ± 0 30 1 24 ± 0 45
LW+P+N	22.51	21.05	21.32	21.63 ± 1	1.55	21.43	22.40	21.50	21 78 +	00	51 21.05 21.32 21.63 ± 1.55 21.43 22.40 21.50 21.78 ± 1.08 21.71 21
LW+E	1.83	1.21	0.99	1.34 ± 0	).87	1.56	1.08	2 93	1 86	9 6	83 1.21 0.99 1.34 ± 0.87 1.56 1.08 2.93 1.86 ± 1.92 1.60 ± 1.45
LW+P+E	2.68	1.76	3.07	2.50 ± 1	.34	3.15	2.59	2.96	2.90 ±	0.57	68 1.76 3.07 2.50 ± 1.34 3.15 2.59 2.96 2.90 ± 0.57 2.70 ± 1.02
LW+N+E	2.60	1.32	1.57	1.83 ± 1	. 36	1.59	2.03	1.32	1.65 ±	0.72	60 1.32 1.57 1.83 ± 1.36 1.59 2.03 1.32 1.65 ± 0.72 1.74 ± 0.99
LW+P+N+E	21.22	20.15	19.03	20,13 ± 2	. 19	19.15	19.99	21.32	20.15 ±	2.19	22 20.15 19.03 20.13 ± 2.19 19.15 19.99 21.32 20.15 ± 2.19 20.14 ± 1.96
											201

Background Water Quality

LW = Lake Water
P = 0.05 mg/l P spike
N = 1.30 mg/l N spike
E = 1.00 mg/l EDTA spike

-	Before	After
Parameter and Units	Processing	Processing
Hd	7.7	7.7
Specific Conductance (umho cm ⁻¹ )	105	94
Total Kjeldahl Nitrogen (mg N $1^{-1}$ )	0.70	0.56
$\frac{NH_3-N \ (mg \ N \ 1^{-1})}{N}$	0.03	0.05
$NO_2^- + NO_3^ N \text{ (mg N 1}^-\text{I)}$	0.007	0.015
Dissolved Ortho-phosphate (mg $^{ m P}$ $^{ m -I}$ )	0.003	0.004
Total Phosphorus (mg p 1 ⁻¹ )	0.026	0.012

TABLE G-1 (cont.)

ALGAL GROWTH POTENTIAL

Station 13

Cycle

Date Processed 4/21/78 Date Collected 4/20/78

Growth Besnonse, ma/1 Ash-Free Drv Wt

				פויי	WELL RES	DOUBE ,	2 / / MI	ייי		
		12	12 Day Count		14 Day Count		14	Day Co		Overall
	ľ	Philipat					Replicate	8		ı
Treatment		1 2 3	~	١×	× ± 20	1	1 2 3	3	x ± 20	x ± 20
MI	10.59	11.51	11.21	11.10	± 0.94	12.05	11.65	11.21	.59 11.51 11.21 11.10 ± 0.94 12.05 11.65 11.21 11.64 ± 0.84 11.37 ± 0.99	11.37 ± 0.99
LW+P	16.05	15.13	15.55	15.58	± 0.92	16.01	15.52	15.62	.05 15.13 15.55 15.58 ± 0.92 16.01 15.52 15.62 15.72 ± 0.52 15.65 ± 0.69	15.65 ±0.69
LW+N	10.59	11.52	12.15	11.42	± 1.57	10.32	11.15	11.32	.59 11.52 12.15 11.42 ± 1.57 10.32 11.15 11.32 10.93 ± 1.07 11.18 ± 1.32	11.18 ± 1.32
LW+P+N	33.55	34.21	32.15	33.30	± 2,10	30.59	32.16	33.42	55 34.21 32.15 33.30 ± 2.10 30.59 32.16 33.42 32.01 ± 2.84 32.68 ± 2.62	32.68 ±2,62
LW+E	10.15	10.32	11.02	10.50	± 0.92	10.53	10.21	11.33	15 10.32 11.02 10.50 ± 0.92 10.53 10.21 11.33 10.69 ±1.15 10.59 ±0.96	10,59 ±0,96
LW+P+E	16.32	17.35	16.31	16.66	± 1.20	16.89	15.92	16.93	.32 17.35 16.31 16.66 ± 1.20 16.89 15.92 16.93 16.58 ± 1.14 16.62 ± 1.05	16.62 ±1.05
LW+N+E	10.11	9.75	9.98	9.95	± 0.36	11.15	9.93	10.01	.11 9.75 9.98 9.95 ± 0.36 11.15 9.93 10.01 10.36 ±1.36 10.16 ±1.00	10.16 ±1.00
LW+P+N+E	32.48	34.01	31.52	32.67	± 2.51	31.42	34.76	30.92	.48 34.01 31.52 32.67 ± 2.51 31.42 34.76 30.92 32.37 ± 4.17 32.52 ± 3.10	32.52 ±3.10

		perore	2
	Parameter and Units	Processing	Proces
a 0	На	7.5	7.5
pike	Specific Conductance (umho cm ⁻¹ )	103	73
	Total Kieldahl Nitrogen (mg N 1 ⁻¹ )	0.76	0.7
	NH ₂ -N (mg N 1-1)	90.0	0.0
	NO, + NO, - N (mg N 1 1)	0.285	0.3
	Dissolved Ortho-phosphate (mg P 1 ⁻¹ )	0.021	0.0
	Total Phosphorus (mg P $1^{-1}$ )	0.082	0.0

TABLE G-1 (cont.)

ALGAL GROWTH POTENTIAL

Date Collected 4/20/78 Date Processed 4/21/78

Cycle 1 Station 14

				Growth Response, mg/1 Ash-Free Dry Wt.	ponse, 1	mq/1 As	h-Free [	Jry Wt.	
		12	12 Day Count			7	14 Day Count	int	Overall
	ľ	Renticate	٥		Replicate	eolicat			1
Ireatment		2	3	× + 29	1	2	~	x ± 2a	x ± 24
3	4.31	2.98	3.15	2.98 3.15 3.48 ± 1.45 3.24 3.81 4.22 3.76 ± 0.98 3.62 ± 1.15	3.24	3.81	4.22	3,76 ± 0.98	3.62 ± 1.15
1W+P	1	10.93	11.96	10.93   11.96   11.37 ± 1.07   11.42   11.06   12.83   11.77 ± 1.87   11.57 ± 1.43	11.42	11.06	12.83	11.77 ± 1.87	11.57 ± 1.43
Z+3			4.28	3.15 4.28 3.88 ± 1.27 4.39 4.65 4.62 4.55 ± 0.28 4.22 ± 1.10	4.39	4.65	4.62	4.55 ± 0.28	4.22 + 1.10
N+d+M I	26 90		27.18	26.85 27.18 26.98 ± 0.36 25.43 27.92 26.33 26.56 ± 2.52 26.77 ± 1.67	25.43	27.92	26.33	26.56 ± 2.52	26.77 ± 1.67
1 W+F	4.21	4.10	3.29	4.10 3.29 3.87 ± 1.0 4.15 4.72 3.90 4.26 ± 0.84 4.06 ± 0.93	4.15	4.72	3.90	4.26 ± 0.84	4.06 ± 0.93
I W+P+E	11.55	12.68	13.21	1.55 12.68 13.21 12.48 ± 1.70 12.20 11.15 10.82 11.39 ± 1.44 11.94 ± 1.85	12.20	11.15	10.82	11.39 ± 1.44	11.94 ± 1.85
LW+N+E	4.82	4.31	4.11	4.31 4.11 4.41 ± 0.73 4.91 4.62 3.92 4.48±1.02 4.40±0.97	4.91	4.62	3.92	4.48 ± 1.02	4.40 ± 0.97
I W+D+N+E	28.20	27.31	26.95	28.20 27.31 26.95 27.49 ± 1.29 26.48 28.35 26.92 27.25 ± 1.96 27.37 ± 1.50	26.48	28.35	26.92	27.25 ± 1.96	27.37 ± 1.50
;									

Background Water Quality

		Before	After
	Darameter and Units	Processing	Processing
ike	Hu	7.7	7.7
ıke spike	Specific Conductance (umho cm ⁻¹ )	155	140
	Total Kieldahl Nitrogen (mg N $1^{-1}$ )	0.63	0.63
	NN (m) N 1-1)	0.05	0.08
	NO_ + NO N (mg N 1-1)	0.206	0.218
	Dissolved Ortho-phosphate (mg P 1-1)	0.005	0.010
	Total Phosphorus (mg P $1^{-1}$ )	0.045	0.034

TABLE G-1 (cont.)

ALGAL GROWTH POTENTIAL

Date Collected 4/21/78 Date Processed4/24/78

				, MOUS	th Resi	ponse. 1	Growth Response, mg/l Ash-Free Dry Wt.	h-Free (	Ory Wt.	
		15	12 Day Count				14	14 Day Count	unt	Overall
		oten land				8	Replicate	a	1	,
Treatment		2	<u>س</u>	× ± 20	20	-	2	3	x ± 20	x ± 2a
7	15 48	13.21	16.92	15.20 ±	3.74	15.32	14.81	13.92	48 13.21 16.92 15.20 ± 3.74 15.32 14.81 13.92 14.68 ± 1.42 14.94 ± 2.59	14.94 ± 2.59
0+N		21.00	18.52	20.27 ±	3.05	19.29	17.68	19.20	30 21 00 18 52 20 27 ± 3.05 19.29 17.68 19.20 18.72 ± 1.81 19.50 ± 2.81	19.50 = 2.81
N+N	14.83	15.21	13.29	14.44 ±	2.03	15.51	16.03	14.09	83 15.21 13.29 14.44 ± 2.03 15.51 16.03 14.09 15.21 ± 2.01 14.83 + 1.99	14.83 + 1.99
14 D+11	36.95	32.15	36.15	35.08 ±	5.14	30.42	31.81	29.62	32 15 36.15 35.08 ± 5.14 30.42 31.81 29.92 30.72 ± 1.96 32.90 ± 5.92	32,90 ± 5,92
1 14 5	15 41	13.92	16.83	15.39 ±	2.91	15.32	15.10	14.99	41 13 92 16.83 15.39 ± 2.91 15.32 15.10 14.99 15.14 ± 0.67 15.26 ± 1.87	15.26 ± 1.87
1 W+D+F	21.99	23.68	21.42	22.36 ±	2.35	19.62	19.23	19.28	23.68 21.42 22.36 ± 2.35 19.62 19.23 19.28 19.38 ± 0.42 20.87 ± 3.60	20.87 ± 3.60
T:V+V(+E	14.83	15.42	16.91	15.72 ±	2.14	15.81	13.92	16.10	83 15.42 16.91 15.72 ± 2.14 15.81 13.92 16.10 15.28 ± 2.37 15.50 ± 2.08	15.50 ± 2.08
LW+P+N+E	37.48	36.18	37.21	36.96	1.37	36.48	38.20	37.15	48 36.18 37.21 36.96 ± 1.37 36.48 38.20 37.15 37.28 ± 1.73 37.12 ± 1.44	37.12 = 1.44
						Ва	ckground	1 Water	Background Water Quality	

LW = Lake Water
P = 0.05 mg/l P spike
N = 1.00 mg/l N spike
E = 1.00 mg/l EDTA spike

of the motores	Before Processing	After Processing
Parameter and onless	7.2	7.2
Specific Conductance (umho cm ⁻¹ )	97	83
Total Kieldahl Nitrogen (mg N 1-1)	0.55	0.55
NHN (mp N 1-1)	0.08	0.15
NO + NO - N (MQ N 1 1)	0.320	0.374
Dissolved Ortho-phosphate (mg P 1-1)	0.029	0.036
Total Phosphorus (mg P $1^{-1}$ )	0.099	0.083

TABLE G-1 (cont.)

ALGAL GROWTH POTENTIAL

Cycle 1 Station 16

Date Collected 4/21/78 Date Processed 4/24/78

Growth Response, mg/l Ash-Free Dry Wt.

				られる	Growth Response, mg/ 1 Asil-11 cc of ac-	nonse,	164 / July	1 22 / 1-11		
		12	12 Day Count	int			14	14 Day Count		Uverali
		Ten lan				PŽ	Replicate	a		ı
Treatment	<u></u>	3 2 3		۱×	$\overline{x} \pm 2\sigma$ 1 2 3	1	2	3	$x \pm 2\sigma$	x ± 20
	13.75	12.61	13.76	13.37	± 1.32	12.48	13.61	14.20	75 12.61 13.76 13.37 ± 1.32 12.48 13.61 14.20 13.43±1.75 13.40±1.39	13.40 ± 1.39
112+D	21 48	26.31	24.21	24.00	4.84	22.38	24.59	23.62	21 48 26.31 24.21 24.00 4.84 22.38 24.59 23.62 23.53 2.22 23.77 2.41	23.77 ± 3.41
1 1 1 th	13.05	15 10	13.22	13.79	1.14	14.15	13.68	14.02	13 05 15 10 13 22 13 79 ± 1.14 14.15 13.68 14.02 13.95 ± 0.49 13.87 ± 1.48	13.87 ± 1.48
I HADAN	20.00	31 21	33 42	32.97	1.58	33.56	34.32	35.16	33.56 34.32 35.16 34.35 33.56 34.32 35.16 34.35 1.60 33.66 ± 2.70	33.66 ± 2.70
1	12 15	23.21	14 28	16 88	11 02	15.15	14.02	13.69	15 23 21 14 28 16 88 + 11 02 15.15 14.02 13.69 14.29 + 1.53 15.58 + 7.59	15.58 ± 7.59
LW+E	22 51	13.75	21 46	19 24	+ 9.57	21.86	24.23	23.36	22 51 13 75 21 46 19 24 ± 9.57 21.86 24.23 23.36 23.15 ± 2.40 21.20 ± 7.57	21.20 ± 7.57
3+ A+T-	14.21	35, 33	13.16	20.90	± 25.02	14.18	13.21	13.38	21 35 33 13.16 20.90 ± 25.02 14.18 13.21 13.38 13.59 ± 1.04 17.25 ± 17.74	17.25 ± 17.74
1 W+D+W+F	36.42		38.21	37.32	± 2.53	35.41	36.28	34.19	38.21 37.32 ± 2.53 35.41 36.28 34.19 35.29 ± 2.10 36.06 ± 3.00	36.06 ± 3.00
7.11.1.1										

Background Water Quality

Processing 0.432 0.032 0.082 0.18 0.57 82 Processing 0.356 0.023 Before 0.100 0.07 0.0 105 Dissolved Ortho-phosphate (mg P 1-1 Total Kjeldahl Nitrogen (mg N  $1^{-1}$ ) Specific Conductance (umho cm 1) Total Phosphorus  $(mg P 1^{-1})$  $NH_3-N \ (mg \ N \ 1^{-1})$  $NO_2^- + NO_3^- - N \ (mg \ N \ 1^{-1})$ Parameter and Units

LW = Lake Water P = 0.05 mg/l P spike N = 1.00 mg/l N spike E = 1.00 mg/l EDTA spike

TABLE G-1 (cont.)

ALGAL GROWTH POTENTIAL

e Processed 4/21/78
4/19/78 Date
Collected 4/1
Date Col

				S S	Growth Response, mg/l Ash-Free Dry Wt.	ponse,	mg/1 As	h-Free		
		12	Day Co	ł			14	14 Day Count		Overal1
	ľ	en icat	a			<b>Y</b>	eplicat	G		
Treatment	-	2	1 2 3	İ×	× ± 2σ	1	1 2 3	3	$\bar{x} \pm 2\sigma$	x ± 20
רא	9.32	10.85	10.32	10.16	± 1.55	10.15	10.92	10.32	.32 10.85 10.32 10.16 ± 1.55 10.15 10.92 10.32 10.46 ± 0.81 10.31 ± 1.16	10,31 : 1,16
LW+P	16.83	15.96	16.32	16.37	± 0.87	15.81	19.85	16,32	.83 15.96 16.32 16.37 ± 0.87 15.81 19.85 16.32 17.33 ± 4.40 16.84 ± 3.02	16.84 ± 3.02
LW+N	9.99	10.32	10.56	10.29	± 0.57	11,56	12.32	10.15	.99 10.32 10.56 10.29 ± 0.57 11.56 12.32 10.15 11.34 ± 2.20 10.82 ± 1.84	10.82 ± 1.84
LW+P+N	32.45	32.61	33.15	32.74	± 0,73	33,68	38.21	33.22	.45 32.61 33.15 32.74 ± 0,73 33.68 38.21 33.22 35.04 ± 5.52 33.89 ± 1.84	33.89 ± 1.84
LW+E	10.93	10.11	10.03	10.36	1.00	12,60	13.72	9.86	.93 10.11 10.03 10.36 ± 1.00 12.60 13.72 9.86 12.06 ± 3.97 11.21 ± 3.19	11.21 ± 3.19
!W+P+E	16.86	15.85	16.92	16.54	± 1.20	16.99	18.92	17.63	.86 15.85 16.92 16.54 ± 1.20 16.99 18.92 17.63 17.85 ± 1.97 17.20 ± 2.04	17.20 ±2.04
LW+N+E	10.75	10,89	10.11	10.58	± 0.83	10.99	8.95	12.32	.75 10,89 10,11 10,58 ± 0,83 10,99 8,95 12,32 10,75 ± 1,70 10.67 ± 2,22	10.67 ± 2.22
1 W+D+N+E	33.86	38.21	31.40	34.49	₹ 6.90	35.68	33.92	33.43	.86 38.21 31.40 34.49 ± 6.90 35.68 33.92 33.43 34.34 ± 2.37 34.42 ± 4.61	34.42 : 4.61

		Before	After
	Parameter and Units	Processing	Processing
ike e	Н	7.4	7.4
spike	Specific Conductance (umho cm $^{-1}$ )	86	76
	Total Kjeldahl Nitrogen (mg N 1 ⁻¹ )	0.66	0.94
	$NH_{3}-N \ (mg \ N \ 1^{-1})$	0.08	0.09
	$NO_2 + NO_2 - N \text{ (mg N 1-1)}$	0.332	0.356
	Dissolved Ortho-phosphate (mg P 1-1)	0.018	0.025
	Total Phosphorus (mg P $1^{-1}$ )	0.066	0.034

TABLE G-2

ALGAL GROWTH POTENTIAL

Date Collected 7/20/78 Date Processed 7/21/78

Growth Response, mg/l Ash-Free Dry Wt.

								al citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of the citation of		
		12	12 Day Count				14	14 Day Count		Overal1
	ľ	Replicate	a			2	eplicat	ē		
Treatment	1	2 3	3	x + 2a		1	1 2 3	3	$\bar{x} + 2\sigma$	$\overline{x} \pm 2\sigma$
r.w	6.21	5.70	6.29	6.07	0.64	5.95	5.84	5.35	6.21 5.70 6.29 6.07 + 0.64 5.92 5.84 5.35 5.70 : 0.62	5.89 .0.69
d+M l	5.89	5.88	90.9	5.94	0.20	6.52	6.01	5.83	5.89 5.88 6.06 5.94 + 0.20 6.52 6.01 5.83 6.12 + 0.72	6.03 ±0.51
N+M-1	7.34	8.52	7.59	7.82	1.24	7.22	7.41	7.91	14         8.52         7.59         7.82         1.24         7.22         7.41         7.91         7.51         10.71         7.67         10.97	7.67 ± 0.97
LW+P+N	29.0	29.1	27.8	28.6	1.45	30.5	33.7	32.4	29.1 27.8 28.6 ± 1.45 30.5 33.7 32.4 32.2 ± 3.22 30.4 ± 4.50	30.4 ±4.50
LW+E	6.01	5.63	5.71	11 5.63 5.71 5.78 ± 0.40 5.78 6.11 5.68	0.40	5.78	6.11	5.68	5.86 ± 0.45	5.82 ±0.39
LW+P+E	5.96	6.24	5.34	6 6.24 5.84 6.03 ± 0.47 5.80 6.15 5.85	0.47	5.80	6.15	5.85	5.93 ±0.38	5.98 ±0.39
LW+N+E	7.92	8.26	7.40	2 8.26 7.40 7.86 ± 0.87 8.28 8.38 8.15	0.87	8.28	8.38	8.15	8.27 ±0.23	8.07 ±0.72
LW+P+N+E	28.4	28.0	27.2	27.9	1.22	28.7	28.3	30.5	28.0 27.2 27.9 ±1.22 28.7 28.3 30.5 29.2 ±2.34 28.5 ±2.20	28.5 ±2.20

		•	,
	Parameter and Units	Before Processing	After Processing
بو به	Hd	7.3	7.3
pike	Specific Conductance (umho cm ⁻¹ )	9/	80
	Total Kjeldahl Nitrogen (mg N 1-1)	0.49	0.43
	$NH_{2}-N \ (m_{2} \ N \ 1^{-1})$	0.05	0.07
	$NO_2 + NO_2 - N \text{ (mg N 1-1)}$	11.0	0.10
	Dissolved Ortho-phosphate (mg P 1-1)	<0.01	0.02
	Total Phosphorus (mg P $1^{-1}$ )	0.10	0.06

TABLE G-2 (cont.)

ALGAL GROWTH POTENTIAL

Cycle 3 Station 7 Date Collected 7/

Date Collected 7/20/78 Date Processed 7/21/78

				i cro	Growth Response, mg/l Ash-Free Dry Wt.	onse, r	ng/1 Ast	1-Free	Jry Wt.	
		15	12 Day Count				F	14 Day Count	int	Overali
		*	000			à	Renlicate		1	,
		Replicate	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1:	; ; ;	-	^	3	× ± 20	ρ7 ∓ x
reatment	1	7	7	\ \	T			1	10 6 7 7 5	27 0 . 01 3
	6 50	6 29	5.91		6.23 ± 0.60	5.74	5.74 6.73 5.95	5.95	6.14 1.04	0.13.0.11
3			L		6 02 + 0 11 6 28	6 2R	6.46	6.29	6.34 ± 0.20	$6.19 \pm 0.38$
LiveP	0.0	6.03	3.30		-	;		1	70 1 1 01	10 5 + 1 82
111.11	12.0	9.48	10.4	10.6	$10.6 \pm 2.55$ [11.1]	  	9.92	- 0.	10.4 = 1.67	10:0
M+14		33.3	26.0	23.0	33 9 + 3.83 30.5	_	30.8	30.8	30.7 ÷ 0.35	32.3 ± 4.24
LW+P+N	32.3	33.3			3			5	21 0 + 1/2 3	6 29 + 0 16
11115	6.24	6.31	6.31 6.37	6.34	$6.34 \pm 0.06$ $6.29$	6.29	6.14	67.0	0.4 - 0.1	
LW+E			5	6 12	99 9 7 6 61 6 70 + 0 34 6 66	6.66	6.44	6.18	6.43 ± 0.48	$6.42 \pm 0.37$
LW+P+E	6.69		0:0	3				5	10 0 + 1 22	10 9 ±1.24
LALNAE	11.4	11.4	10.1	0. =	11.0 ± 1.50   11.2	7.11	 		10.0	
רושיותיר		+	2.1	30 6	30 6 12 60 31.7	31.7	32.9	32.7	32.4 ± 1.29	32.4 ±1.29   31.5 ±2.72
LW+P+N+E	31.3	1.67		2	20.1					
						8a	ckgroun	d Water	Background Water Quality	
							1			76+02

Parameter and	рН	Specific Condu	Harrier V
LW = Lake Water	p = 0.05  mg/l P spike N = 1.00  mg/l N spike	н	

	Refore	After
445711 1777 7	Processing	Processing
Parameter and Units	7.2	7.1
pH () and	88	85
Specific Conductance (pm. 5)	0.48	0.83
lotal Kjelodil nicrogen (mg m	0.06	90.0
NH3-N (Mg N 1 )	0.16	0.11
NO2 + NO3 - M (High M I )	0.01	0.02
Dissolved Ortho-phosphate (mg r 1)	0.11	0.12
Total Phosphorus (mg F 1 /		

TABLE G-2 (cont.) ALGAL GROWTH POTENTIAL

Station 9 Cycle 3

Date Collected 7/18/78 Date Processed 7/21/78

				יוי	owth Re	sponse,	mq/1 As	sh-Free	Growth Response, mg/l Ash-Free Dry Wt	
		1;	12 Day Count	ount			F	14 Day Count	inot.	110000
		Replicate	نه	L			100		2112	Overail
Trontmont	•	ľ		1			9	2		
ו בש חוובנו ר	-  -	2 3	~	×	x ± 2a	1 2 3	7	٣	× + 23	۰ ۲×
-	•									<b>.</b>
¥.	4.94	5.11	4.46	4.84	± 0.68	5.34	4 85	4 95	F OF .0 F.2	5.11 4.46 4.84 ± 0.68 5.34 4 85 4 95 6 6 6 6 7 6 7
0 4 11 1		-							2.02 - 0.25	4.94 0.58
L M • 1	4.55	-	4.61	4.53	± 0.19	4.69	4 89	7 77	4.42 4.61 4.53 ± 0.19 4.69 4 89 4 40 1 4 57 +0 45	4 0 7
1 1.5± Ni	•	١							Ch.U. 10.4	4,50 -0,35
LWTIN	4.73	5.08	4.54	4.78	± 0.55	4.85	4.56	4 64	1 60 + 0 20	5.08 4.54 4.78 ± 0.55 4.85 4.56 4.64 7.50 10.50
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6								67.0 - 60.4	1.4.75 - 0.41
LWTFI	78.0	75.9	55.6	26.5	± 2.62	26.2	26.9	25.5	04 1 + 6 26	25.9 25.6 26.5 + 2.62 26.2 26.9 25.5 35.3 1.0 22 1.1
L :								53.	70.5	1.26.4
LW+L	4.88	4.75	4.53	4.72	± 0.35	4 70	78 7	66 1	C . O + JE V	4.75 4.53 4.72 ± 0.35 4.70 4.86 4.72
2.0111							20.7	7:/5	4.70 - 0. /	$1.4.74 \pm 0.25$
LWTPTE	4.76	4.98	4.70	4.81	+ 0 2g	4 66	0 / /	•		4.98 4.70 4.81 +0.29 4 66 4 48 4.00
L . 14 . 1 .					, , ,	2001	2	7	$4.51 \pm 0.27$	$1.4.66 \cdot 0.41$
LMTNTE	4.40	4.69	4.45	4 51	t 0 +	7 65	-		4.69 4.45 4 51 ± 0 21 4 55	
	ı					7007	70.7	4-4	4.63 -0.41	4 57 -0 35
LW+P+N+E	7.07	25.8	25.9	26.0	+ 0 42	25.0	0 76	, ,		25.8 25.9 26.0 ± 0.42 25.0 37.0 37.0
				2.5	J	0.63	24.0	יי	75 7 1 10 00 1	75 6 + 3 70

Background Water Quality

Processing

Processing Before

0.33 0.07 0.05

0.48 0.05 0.03

95

0.01

Dissolved Ortho-phosphate (mg P 1⁻¹)

Total Phosphorus (mg P  $1^{-1}$ )

0.14 <0.03

92

Total Kjeldahl Nitrogen (mg 14 1-1 Specific Conductance ( $\mu mho \ cm^{-1}$  $NH_3-N \text{ (mg N 1}^{-1})$   $NO_2^- + NO_3^- - N \text{ (mg N 1}^{-1})$ Parameter and Units M = Lake Water
= 0.05 mg/l P spike
= 1.00 mg/l N spike
= 1.00 mg/l EDTA spike

MS P E

G-14

TABLE G-2 (cont)

ALGAL GROWTH POTENTIAL

Cycle 3 Station 10

Date Collected 7/18/78 Date Processed 7/20/78

				Gro	wth Res	ponse, 1	mg/1 Asi	Growth Response, mg/l Ash-Free Dry Wt.	Ory Wt.	
		12	12 Day Count				7	14 Day Count	ınt	Overall
		Replicate	9				Replicate		١	i
Treatment	-	2 3	3	x + 2a	1	1 2	2	8	x ± 20	ν ± 2σ
M1	3.42	3.51	3.43	3,45	בנים ±	3.42	3.45	3.58	3,51 3,43 3.45 ± 0.10 3.42 3.45 3.58 3.48 ± 0.17 3.47 ± 0.13	3 47 ± 0.13
LW+P	3.95	4.10	3.84	3.96	± 0.26	3.90	3,86	3.89	4.10 3.84 3.96 ± 0.26 3.90 3.86 3.89 3.88 ± 0.04 3.92 ± 0.19	3.92 ± 0.19
LW+N	14.6	14.6	14.5	14.57	± 0.12	13.4	14.1	14.2	14.6 14.5 14.57 ± 0.12 13.4 14.1 14.2 13.9 ± 0.87 14.23 ± 0.92	14.23 ± 0.92
LW+P+N	35.8	37.4	36.8	36.7	± 1.62	35.3	35.7	37.4 36.8 36.7 ± 1.62 35.3 35.7 36.2	35.7 ± 0.91 36.2 ± 1.55	36.2 ± 1.55
LW+E	1	3.40	3.39	3.36	± 0.13	3.35	3.69	3.54	$3.40$ $3.39$ $3.36 \pm 0.13$ $3.35$ $3.69$ $3.54$ $3.53 \pm 0.17$ $3.44 \pm 0.30$	3.44 ± 0.30
LW+P+E	3.89	•	3.92	3.88	₹ 0.08	4.06	3.83	4.04	3.84 3.92 3.88 ± 0.08 4.06 3.83 4.04 3.98 ± 0.25	3.93 ± 0.20
LW+N+E	14.7	15.3	14.6	14.9	± 0.76	14.6	14.0	15.1	15.3   14.6   14.9 ± 0.76   14.6   14.0   15.1   14.6 ± 1.10   14.7 ± 0.91	14.7 ± 0.91
I W+P+N+F	37.0	36.7	36.1	36.6	± 0.92	37.5	38.4	38.5	36.7 36.1 36.6 ± 0.92 37.5 38.4 38.5 38.1 ± 1.10 37.4 ± 1.91	37.4 ± 1.91

	Before	After
Parameter and Units	Processing	Processing
Ha	7.8	7.9
Specific Conductance (umho cm ⁻¹ )	93	100
Total Kieldahl Nitrogen (mg N 1-1)	0.58	0.49
NHN (mg N 1-1)	0.03	90.0
NO. + NO N (mg N 1 1)	0.01	0.04
Discolved Ortho-phosphate (mg P 1-1)	<0.01	0.03
Total Phosphorus (mq P 1 ⁻¹ )	0.11	0.12

TABLE G-2 (cont.) ALGAL GROWTH POTENTIAL

Station 11 Cycle 3

Date Processed 7/20/78 Date Collected 7/18/78

				Growt	h Rest	nonse. n	ng/1 As	Growth Response, mg/l Ash-Free Dry Wt.	Iry Wt.	
		12	12 Day Count	I.,			F	14 Day Count	ınt	Overall
		04621100				Replicate	eplicati	ď		1
+ mon + mon +		1	~	x ± 20		-1	2	3	$x \pm 2\sigma$	x ± 20
ייים רוויים ווייים ווייים ווייים ווייים ווייים ווייים ווייים ווייים ווייים ווייים ווייים ווייים ווייים ווייים	5.54	5.70	5.72	5.65 ± (	0.20	5.62	5.60	5.61	5.70 5.72 5.65 ± 0.20 5.62 5.60 5.61 5.61±0.02	5.63 ÷ 0.13
₹	5 76	5,66	5.92	5.78 • (	0.26	5.79	5.81	5.98	5 66 5.92 5.78 · 0.26 5.79 5.81 5.98 5.86 ± 0.21	5.82 : 0.23
1 1/4 83	7 50	7 45	7.45	7 45 7 45 7.50 · 0.16 7.39 7.12 7.06	0.16	7.39	7.12	7.06	7.19 ± 0.35	7.34 ± 0.42
L.W. T.	20,00	7 82	28.8	28.9 ±	0.53	30.4	27.8	27.5	28 7 28 8 28 9 ± 0.53 30.4 27.8 27.5 28.6 ± 3.19	28.7 ± 2.08
LWATTI	5 66	5 56 5 82	5.82	5.68 ± 0.26 5.52 5.53 5.69	0.26	5.52	5.53	5.69	5.58 ± 0.19	5.58 ± 0.19 5.63 ± 0.23
LWFC	5 83	5 93	5,99	5 93 5 99 5 91 ± 0.18 5.71 5.78 5.73	0.18	5.71	5.78	5.73	5.74 ± 0.07	5.83 ± 0.22
LW+F+C	7.26	7.27	7.36	7.30 ±	0.11	7.25	7.18	7.08	7.27 7.36 7.30 ± 0.11 7.25 7.18 7.08 7.17 ± 0.17 7.23 ± 0.19	7.23 ± 0.19
1 W+D+W+F	29.4	29.3	29.3	29.3 ±	0.12	29.3	28.1	27.3	29.3 29.3 29.3 ± 0.12 29.3 28.1 27.3 28.2 ± 1.01 28.8 ± 1.75	28.8 ± 1.75

Background Water Quality

= 0.05 mg/l P spike = 1.00 mg/l N spike = 1.00 mg/l EDTA spike LW = Lake Water
P = 0.05 mg/l P
N = 1.00 mg/l N
E = 1.00 mg/l E

	Before	After
Commence of Clarite	Processing	Processing
בח מות מות מות בא	7.9	7.9
Specific Conductance (umho cm ⁻¹ )	125	120
Total Kieldahl Nitrogen (mg N 1-1)	0.45	0.35
N (m) N 1-1)	0.07	90.0
NO + NO - N (mg N 1 - 1)	0.09	0.09
Discolved Ortho-phosphate (mg P 1-1)	<0.01	0.02
Total Phosphorus (mg P 1-1)	90.0	0.12
1000		

TABLE G-2

ALGAL GROWTH POTENTIAL

Station 12

Cycle 3

Date Collected 7/19/78 Date Processed 7/20/78

				r.	Wth Res	nonse.	Growth Response, mg/l Ash-Free Dry Wt.	1-Free (	Dry Wt.	
		12	12 Day Count			7	14	14 Day Count	ınt	Overall
		100				2	Replicate			ı
Troatmont	-	1 750111915	~	١×	× ± 20	-	2	8	$\bar{x} \pm 2\sigma$	x + 20
2112000	2,41	2.39	2.40	2.40	± 0.02	2.34	2.25	2.37	41 2.39 2.40 2.40 ± 0.02 2.34 2.25 2.37 2.32 ± 0.12 2.36 ± 0.12	2.36 : 0.12
I W+P	3 66	3 83	3.69	3. 73	÷ 0.18	3.95	3.94	3.94	66 3 83 3 69 3 73 ± 0.18 3.95 3.94 3.94 3.94±0.01	$3.84 \pm 0.13$
N+7	2.12	2.15	2.07	2.11	₹ 0.08	1.96	1.94	1.97	12 2.15 2.07 2.11 ± 0.08 1.96 1.94 1.97 1.96 ± 0.03 2.04 ± 0.18	2.04 ± 0.18
I W+D+M	23.3	23.3 24.0 23.2 23.5 ± 0.87 24.8 26.2	23.2	23.5	± 0.87	24.8	26.2	1	25.5 ±1.98 24.3 ±2.48	24,3 ±2,48
11.45	2.27	1		2 27	2 27 + 0.00 2 21	12.2	ı		2.21 ±0.00	2.21 ±0.00 2.24 ±0.08
LMTE	2 74	74 3 73	l	3.74	+ 0.01	3.66	3.97	3.84	3.74 ±0.01 3.66 3.97 3.84 3.82 ±0.31	3.79 +0.24
LW+N+E	2.04	.04 2.16		2.10	± 0.17	2.03	2.10 ± 0.17 2.03 2.11 _	1	2.07 ±0.11 2.09 ±0.12	2.09 ±0.12
LW+P+N+E	23.1	23.7	23.2	23.3	±0.64	25.7	26.3	25.5	.1 23.7 23.2 23.3 ±0.64 25.7 26.3 25.5 25.8 ±0.83 24.6 ±2.82	24.6 *2.82

After Processing	7.9	95	0.41	0.07	0.03	<0.01	0.03	
Before Processing	7.8	06	9.36	0.05	<0.01	<0.01	0.03	
0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i = 0 + i	אמן מווע כון כון כון בון דר און דר און און און און און און און און און און	Specific Conductance (wmho cm ⁻¹ )	Total Kieldahl Nitrogen (mg N 1-1)	NHN (mg N 1-1)	NO. + NO N (mg N 1-1)	Dissolved Ortho-phosphate (mg P 1-1)	Total Phesphorus (mg P $1^{-1}$ )	
Note that or	F = 0.05  mg/l	N = 1.00  mg/l N Sp1ke E = 1.00  mg/l EDTA sp1ke						

TABLE G-2 (cont.)

ALGAL GROWTH POTENTIAL

Date Collected 7/17/78 Date Processed 7/18/78

Cycle 3 Station 13

		1.2	12 Day Count	•			14 Day Count	14 Day Count	unt	Overall
		Politicale	200			2	Replicate			ţ
Treatment	1-	2	3	١×	× ± 20	1	2	3	× ± 2σ	x ± 2σ
<b>X</b>	5.06	5.15	4.93	5.04	± 0.22	5.31	5.41	5.46	4.93 5.04 ± 0.22 5.31 5.41 5.46 5.39 ± 0.15 5.22 ± 0.42	5.22 ±0.42
LW+P	9.17		9.36	9.58	± 0.19	9.69	9.56	9.91	9.30 9.36 9.28 ± 0.19 9.69 9.56 9.91 9.72 ± 0.35 9.50 ± 0.55	9.50 ± 0.55
LW+N	4.88	<u> </u>	5.26	5.10	± 0.39	5.23	5.33	5.45	5.16 5.26 5.10 ±0.39 5.23 5.33 5.45 5.34 ±0.22 5.22 ±0.39	5.22 ±0.39
N+d+MT	26.6	27.6	27.1	27.1	± 1.00	27.5	27.6 27.1 27.1 ±1.00 27.5 27.2 27.1	27.1	27.3 ±0.41 27.2 ±0.71	27.2 ±0.71
- M+E	5.30	5.27	1	5.29	5.29 ±0.04 5.64 5.59	5.64	5.59		5.72 ±0.08	5.45 ±0.38
LW+P+E	9.77	9.48	1	9.63	9.63 ±0.41 10.2 10.5	10.2	10.5	Í	10.4 ±0.42	10.4 ±0.42 9.99 ±0.90
LW+N+E	5.10	5.12		5.11	5.11 ±0.03 5.10 5.48	5.10	5.48	ſ	5.29 ±0.54	5.29 ±0.54 5.20 ±0.37
1 W+P+11+E		27.0		26.5	26.5 ±1.41 28.9 29.9	28.9	29.9	_	24.4 ±1.41 28.0 ±3.54	28.0 ±3.54

Water Quality	
Background Wa	
Back	

		Before	After
LW = Lake Water	Parameter and Units	Processing	Processing
P = 0.05  mg/ P  spike	HC	8.3	8.3
R = 1.00  mg/l R Spike $E = 1.00  mg/l$ EDTA spike	Specific Conductance (umho cm ⁻¹ )	155	1 60
	Total Kieldahl Nitrogen (mg N $1^{-1}$ )	0.47	0.43
	$NH_2-N$ (mg $N$ $1^{-1}$ )	0.08	0.09
	NO, + NO, - N (mg N 1 ⁻¹ )	0.14	0.16
	Dissolved Ortho-phosphate (mg P 1-1)	0.01	0.01
	Total Phosphorus (mg P $1^{-1}$ )	90.0	<0.01

TABLE G-2 (cont.)

ALGAL GROWTH POTENTIAL

Station 14

Cycle 3

Date Processed 7/20/78 Date Collected 7/19/78

Growth Response, mg/l Ash-Free Dry Wt.

				AO IO	ווו אבא	101100		}		
		12	12 Day Count				14 Day Count	Day Co		Overall
		1 6 7 5 100				2	eplicati	a		1
4 4 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		5	ſ	1>	2,4	-	- 0	~	× + 23	x ± 20
i rea unen t	1	7	?	<u>'</u>	27		1			
3	2.37	2.41	2.41	2.39 ±	80.0	2.38	2.36	2.51	2.42 ± 0.16	2.40 ± 0.12
d+M1	18.3	18.1	17.7	18.0	0.61	17.6	17.8	18.8	18.3 18.1 17.7 18.0 ± 0.61 17.6 17.8 18.8 18.1 ± 1.29 18.1 ± 0.90	18.1 ± 0.90
N+M	2.52	2.47	2.47	2.49	0.06	2.56	2.62	2.36	2 52 2 47 2.47 2.49 ± 0.06 2.56 2.62 2.36 2.51 ± 0.27 2.50 ± 0.18	2.50 ± 0.18
	5 6	3.5 5	22 1	22.9	1 47	26.0	26.3	27.0	26.4 + 1.03	24.8 ± 3.68
	63.0	63.3	2.75	23.67						
1 W+F	2.35	2.45	2.37	2.39	0.11	2.43	2.63	2.57	2.54 ± 0.21	2.47 ± 0.22
1 140+6	18.0	18.2	18.5	18.2	0.50	19.8	19.7	19.1	18 0 18 2 18 5 18 2 + 0.50 19.8 19.7 19.1 19.5 ± 0.76 18.9 ± 1.54	18.9 ± 1.54
	2 40	80 0	2 49	2 46	0 10	2,30	2.38	2.28	2.32 ± 0.11	2.39 ± 0.18
LM+M+E	2:30	21.3								30.00
LW+P+N+E	23.6	23.3	23.8	23.6	0.50 ±	25.2	24.1	23.6	23.6 [23.3 [23.8 [23.6 $\pm$ 0.50 [25.2 [24.1 [23.6 [24.3 $\pm$ 1.64 [23.9 $\pm$ 1.55	23.9 ± 1.35

		Before	After
LW = Lake Water	Darameter and Units	Processing	Processing
P = 0.05  mg/l  P  spike	Ha	7.9	7.9
R = 1.00  mg/l H  Spike E = 1.00  mg/l EDTA spike	Specific Conductance (umho cm ⁻¹ )	200	215
	Total Kieldahl Nitrogen (mg N 1-1)	0.25	0.27
	NHN (mg N 1-1)	0.04	0.07
	NO. + NO N (mg N 1-1)	0.50	0.42
	Discolved Ortho-phosphate (mg P 1-1)	<0.01	<0.01
	Total Phosphorus (mq P 1-1)	01.0	0.08

TABLE 6-2 (cont.)

ALGAL GROWTH POTENTIAL

Cycle 3 Station 15

Date Collected 7/17/78 Date Processed 7/18/78

					WILL KES	ponse,	browth Response, mg/   Ash-Free Dry Wt.	h-Free	Dry Wt.	
		12	12 Day Count					14 Day Count	unt	Overall
		Replicate	Б				Policat	٥		
Treatment	-	2 3	3	١×	$\overline{x} \pm 2\sigma$	1	1 2 3	3	x + 2a	x ± 20
LW	5.29	5.12	5.20	5.20	± 0.17	5.09	5.04	5.20	5.29 5.12 5.20 5.20 ± 0.17 5.09 5.04 5.20 5.11 ± 0.16 5.16 ± 0.18	5 16 ± 0 18
LW+P	15.7	16.0	15.7	15.8	± 0.35	16.2	15.6	16.6	16.0 15.7 15.8 ± 0.35 16.2 15.6 16.6 161 ±1 01 16 0 ± 0 77	16 0 ± 0 77
LW+N	5.37	5.53	5.58	5.49	+ 0.22	5.25	5.55	5 30	37 5.53 5.58 5.49 ± 0.22 5.25 5.55 5.30 5.37 ± 0.32 5.43 ± 0.39	5 43 +0 20
LW+P+N	28.3	28.3	26.1	27.6	= 2.54	29.6	29.0	30 B	28.3 26.1 27.6 ± 2.54 29.6 29.0 30.8 ± 1.83 30.7 ± 3.15	07.0 64.6
LW+E	5.33	13 5.35	1	5.34	± 0.03	5 25	5.34 ± 0.03 5.25 5.38	-	5 22 + 0 19	5 22 + 0 10 5 22 + 0 11
LW+P+E	15.7	15.9	1	15.8	15.8 ± 0.28 16.1 16.0	16.1	16.0	1	16.1 ±0.14	16.1 ±0.10 5,33 ±0,11
LW+N+E	5.65	5.65 5.68	1	5.67	5.67 ± 0.04 5.35 5.35	5.35	5.35		5 35 ± 0 00	5 35 ± 0 00 E E1 ± 0 36
LW+P+N+E	28.8	29.5	1	29.0	29.0 ± 0.57 29.4 30.0	29.4	30.0		20 7 ± 0 85	20 7 ± 0 85 20 4 +3 50
							,			1 1 7

Background Water Quality

LW = Lake Water P = 0.05 mg/l P spike N = 1.00 mg/l N spike E = 1.00 mg/l EDTA spike

Parameter and Units	Processing	Processing
РН	9.8	8.6
Specific Conductance (umho cm $^{-1}$ )	160	175
Total Kjeldahl Nitrogen (mg N 1 ⁻¹ )	0.57	0.41
NH3-N (mg N 1-1)	0.08	0.10
$NO_2 + NO_3 - N \text{ (mg N 1}^T\text{)}$	0.28	0.30
Dissolved Ortho-phosphate (mg P $1^{-1}$ )	<0.01	0.01
Total Phosphorus (mg P $1^{-1}$ )	0.12	

TABLE G-2 (cont.)

ALGAL GROWTH POTENTIAL

Station 16

Cycle

Date Collected 7/17/78 Date Processed 7/18/78

Growth Response, ma/1 Ash-Free Dry Wt

				arowill response, mg/ I Asil-rree Dry Wt.	DOLLSE,	IIIg/ I AS	11-1166	Ury Wt.	
		12	Day Co			14 Day Count	Day Co		0vora1
		3ep∐icat	e			(eplicat	a		
Treatment	1	1 2 3	3	x ± 2σ	1	1 2 3	3	$\bar{x} \pm 2\sigma$	x ± 20
LW	15.3	13.7	14.1	14.4 ± 1.67	14.4	15.1	15.4	15.0 :1.03	14.7 ±1.40
LW+P	1.62	30.4	28.3	29.3 ± 2.12	32.3	31.6	31.1	31.7 ±1.21	30.5 ±3.03
LW+N	15.2	15.3	15.4	2 15.3 15.4 15.3 ±0.20 15.3 14.5 15.4 15.1 ±0.99 15.2 ±0.69	15.3	14.5	15.4	15.1 ±0.99	15.2 ±0.69
LW+P+N	35.9	37.6	36.9	36.8 ± 1.71	38.0	39.68	33.3	37.0 ±6.55	36.9 ±4.28
LW+E	14.8	14.5	15.5	14.9 ± 1.03	14.9	15.7	13.5	14.7 ±2.23	14.8 ±1.57
LW+P+E	28.8	29.9	28.7	29.1 ± 1.33	29.5	32.1	33.9	31.8 ±4.42	28.8 29.9 28.7 29.1 ±1.33 29.5 32.1 33.9 31.8 ±4.42 30.5 ±4.16
LW+N+E	13.9	14.9	14.8	14.5 ± 1.10	15.9	14.6	14.6	15.0 ±1.50	14.8 :1.30
LW+P+N+E	37.1	37.8	36.6	.1 37.8 36.6 37.2 ±1.21 35.1 35.7 38.8 36.5 ±3.97 36.9 ±2.72	35.1	35.7	38.8	36.5 ±3.97	36.9 +2.72

Background Water Quality

		Before	After
$C_{\rm H} = C_{\rm H} + C_{\rm H} + C_{\rm H}$ $P_{\rm H} = 0.05  \text{mg/l}  \text{D. caib.}$	Parameter and Units	Processing	Processing
N = 1.00 mg/l N spike	рН	7.6	7.6
<pre>t = 1.00 mg/l EDTA spike</pre>	Specific Conductance ( $_{u}$ mho cm $^{-1}$ )	145	150
	Total Kjeldahl Nitrogen (mg N 1 ⁻¹ )	0.39	0.35
	NH3-N (mg N 1-1)	0.05	90.0
	$NO_2^- + NO_3^ N \text{ (mg N 1}^{-1}\text{)}$	0.57	0.65
	Dissolved Ortho-phosphate (mg P 1-I)	0.03	0.05
	Total Phosphorus (mg $^{\rm p}$ $^{\rm 1-1}$ )	0.08	0.02

TABLE G-2 (cont.)

ALGAL GROWTH POTENTIAL

Cycle 3 Station 18

Date Collected 7/18/78 Date Processed 7/20/78

Growth Response, mg/! Ash-Free Dry Wt.

				CDV III MO IC	001100	- /5			
		12	Day Col	int		14	Day Cor		Overall
		1 6 7 6 1 00				en icate	2		ŀ
Treatment	-	2	~	$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{x} \pm 2\sigma$ $\frac{1}{x}$	-	2	3	$\tilde{x} \pm 2\sigma$	$x \pm 2\sigma$
3	5 56	5.81	5.73	5 70±0 26	5.74	5.50	5.95	5.73 +0.45	5.81 5.73 5 70±0 26 5.74 5.50 5.95 5.73±0.45 5.72±0.33
LW+P	18.2	18.2	17.9	18.1 ± 0.35	19.3	18.5	18.4	18.7 *0.99	2 18.2 17.9 18.1 ±0.35 19.3 18.5 18.4 18.7 ±0.99 18.4 ±0.96
2+3-		5.67	5.79	5.73±0.12	5.85	5.77	5.98	5.87 0.21	73 5.67 5.79 5.73 0.12 5.85 5.77 5.98 5.87 0.21 5.80 0.21
N+D+M1	26.7	9.92	27.8	27.0 ± 1.33	28.6	28.2	28.2	28.3 .0.46	7 26 6 27 8 27 0 ±1.33 28,6 28,2 28,2 28,3 10,46 27.7 1.68
LW+E	5.73	5.67	5.64	5.68±0.09	5.65	5.54	5.57	5.59 ±0.11	73 5.67 5.64 5.68 0.09 5.65 5.54 5.57 5.59 0.11 5.63 0.14
LW+P+E	18.1	18.3	17.7	18.0 ± 0.61	18.1	18.6	18.4	18.4 ±0.50	1 18.3 17.7 18.0 ±0.61 18.1 18.6 18.4 18.4 ±0.50 18.2 ±0.62
LW+N+E		5.35	5.77	5.64±0.50	5.70	5.81	5.98	5.83±0.28	79 5.35 5.77 5.64±0.50 5.70 5.81 5.98 5.83±0.28 5.73±0.42
3+N+D+M+	29.0	28.3	28.2	28.5 ±0.86	26.9	26.7	28.7	27.4 ±2.20	0 28.3 28.2 28.5 ±0.86 26.9 26.7 28.7 27.4 ±2.20 28.6 ±1.90

		Before	Afte
	Darameter and Units	Processing	Proces
e e	Ha	7.5	7.5
pike	Specific Conductance (umho cm ⁻¹ )	120	135
	Total Kieldahl Nitrogen (mg N 1-1)	0.47	0.3
	NHN (mg N 1-1)	0.08	0.0
	NO. + NO N (mq N 1-1)	0.12	0.4
	Discolved Ortho-phosphate (mg P 1-1)	<0.01	0.0
	Total Phosphorus (mg P 1-1)	0.14	0.1

ALGAL GROWTH POTENTIAL

Date Collected 9/27/78 Date Processed 9/28/78

				Growth Response, ma/l Ash-Free Dry Wt.	nonse, r	mg/l Ast	1-Free		
		12	12 Day Count			14	14 Day Count		Overall
		71	700		Å.	Policate			
		2101703	,	12	1 2 3	2	~	x + 20	× ± 20
Freatment	7	1 2	7	07 T Y		†	Ì		
1.17	8 28	8.53	7.57	$8.13 \pm 1.00$	7.65	6.68	7.22	7.18 ± 0.97	28 8.53 7.57 8.13 ± 1.00 7.65 6.68 7.22 7.18 ± 0.97 7.66 ± 1.36
		5	000	35 0 + 68 0	N 5.4	11 3	11.3	$10.5 \pm 3.51$	2 5 6 6 6 8 5 6 8 5 6 11 3 11 8 10.5 ± 3.51 10.2 ± 2.37
L*+7	9.80	3.03	3.30	3.02 - 0.30	5				
N+73	8 65	8.32	8.90	3.62 ± 0.58	9.83	9.03	8.09	8.98 ± 1.74	6r, 8.37 8.90 3.62 ± 0.58 9.83 9.03 8.09 8.98 ± 1.74 8.30 ± 1.63
		;	0 00	20 0 4 1 E1	22 0	31.0	30 B	31.5 ± 2.20	2.3 20 20 2 1 51 22 8 31 0 30 8 31.5 ± 2.20 30.9 ± 2.21
N+d+M	29.7	31.1	63.3	30.00	34.0				
3+M )	7 54	R 43	8.39	8.12 ± 1.01	8.72	9.51	9.31	9.18 ± 0.82	643 8 43 8 39 8 12 ± 1.01 8.72 9.51 9.31 9.18 ± 0.82 8.65 ± 1.42
7.6.4	-	000	7 21	9 10 + 3 89	10.6	8.51	9.72	9.61 ± 2.10	0 00 7 21 0 10 + 3 89 10 6 8.51 9.72 9.61 ± 2.10 9.36 ± 2.85
LW+V+E	1:1	0:33	13:/				1	64 0	0 21 + 1 17
LW+N+E	7.22	8.43	7.83	7.83 ± 1.21	8.67	8.32	8.77	8.59 = 0.47	22 8.43 7.83 7.83 ± 1.21 8.67 8.32 8.77 8.59 ± 0.47 6.21 ± 1.17
34849481	78 3	38.6	43.7	40.2 ± 6.07	35.9	34.8	34.0	34.9 ± 1.91	3 38 6 43 7 40 2 ± 6.07 35,9 34.8 34.0 34.9 ± 1.91 37.6 ± 7.06
		2							

		Before	After
Д	Parameter and Units	Process 1ng	Processing
=		7.50	7.50
Spike OTA spike Sp	Specific Conductance (umho cm ⁻¹ )	100	108
<u> </u>	Total Kieldahl Nitrogen (mg N 1-1)	0.5	0.4
	NHN (mg N 1-1)	0.05	0.10
15	NO + NO - N (mg N 1 - 1)	0.13	0,16
ا ا	Dissolved Ortho-phosphate (mg P 1 1)	<0.01	0.02
3 5	Total Phosphorus (mg P 1-1)	0.05	0.03

TABLE G-3 ALGAL GROWTH POTENTIAL

Date Collected 9/27/78 Date Processed 9/28/78

		<u> </u>	0.50	Growth Response, mg/l Ash-Free Dry Wt.	ponse, r	ng/1 As	Ash-Free Dry	Dry Wt.	Overall	
		1000	It day count	7117	P	Renlicate				
Ireatment			3	x ± 23	-	2	3	$\bar{x} \pm 2\sigma$	× ± 2σ	
3	7.98	7.93	8.55	7.93 8.55 8.15 ± 0.69 8.05 8.08 9.19	8.05	80°3	9.19	8.44 : 1.30 8.27 : 1.04	8,27 ± 1	8
4+M1	7.50	7.45	7.45 8.23	7.73 ± 0.87   3.80   8.87	3.80	8.87	10.2	9.29 ± 1.58 8.51 ± 2.06	8.51 ± 2	90
I Mari	14.0	15.9	17.0	15.6 · 3.04	16.4	15.4	14.6	15.9 17.0 15.6 3.04 16.4 15.4 14.6 15.5 ± 2.00 15.6 + 2.24	15.6 + 2	.24
M+D+M	44.5	43.2	43.2 42.3	43.5 ± 1.78 40.4 39.9	40.4	39.9	40.0	40.0 40.1 ± 0.53 41.8 · 3.90	41.8 • 3	90
1446	7.04	8.61	8.05	7.90 : 1.59	7.93	8.44	7.83	8.61 8.05 7.90 ± 1.59 7.93 8.44 7.83 8.07 ± 0.65 7.98 ± 1.10	7.98 ± 1	10
	8.21	7.80	8.13	8.05 · 0.43 9.15 10.0	9.15	10.0	8.34	8.34 9.33 ± 1.20 8.69 ± 1.62	8,69 ± 1	.62
- K+N+F	14.4	15.0	14.4	15.0 14.4 14.6 + 0.69 15.0 16.1	15.0	16.1	15.2	15.2 15.4 ± 1.17 15.0 ± 1.25	15.0 ± 1	.25
I W+P+N+E	30.5	32.7	30.9	31.4 ± 2.34	42.1	38.6	39.5	32.7 30.9 31.4 ± 2.34 42.1 38.6 39.2 40.0 ± 3.74 35.7 ± 9.83	35.7 ± 9	8

Background Water Quality

		Before	Arter
	Parameter and Units	Processing	Processing
oike	Hu	7.20	7.20
orke Aspike	Specific Conductance (umho cm ⁻¹ )	95	100
	Total Kieldahl Nitrogen (mg N 1-1)	0.5	0.4
	NH3-N (mg N 1-1)	<0.01	90.0
	NO. + NO N (mq N 1.1)	0.12	0.15
	Discolved Ortho-phosphate (mg P 1 1)	<0.01	0.01
	Total Phosphorus (mq P 1-1)	0.04	0.03

LW = Lake Water P = 0.05 mg/l P spike N = 1.00 mg/l N spike E = 1.00 mg/l EDTA spik

TABLE G-3 (cont.) ALGAL GROWTH POTENTIAL

Date Collected 9/26/78 Date Processed 9/28/78

Growth Response, mg/l Ash-Free Dry Wt.

				or Ow Cir Response, mg/ 1 Asn-rree ory wt.	bourse,	IIIG/ I AS	n-rree	UTY ET.		
		12	12 Day Count			14 Day Count	Day Co	unt	Overal1	Γ
		Replicat	B			Replicate	ا			Γ
Treatment	1	1 2 3	3	x ± 20	1	1 2 3	3	$\overline{x} \pm 2\sigma$	$x \pm 2a$	
רא	4.77	4.41	4.11	4.43 ± 0.66	4.34	4.42	4.30	4.35 ± 0.12	4.39 - 0.4	4
LW+P	3.93	4.15	4.33	4.14 ± 0.40	4.11	4.72	4.21	$3.93$ $4.15$ $4.33$ $4.14 \pm 0.40$ $4.11$ $4.72$ $4.21$ $4.35 \pm 0.65$ $4.24 \cdot 0.54$	4.24 . 0.5	<b>*</b>
LW+N	25.1	24.8	22.4	24.1 ± 2.96	26.3	23.0	24.0	5.1 24.8 22.4 24.1 ± 2.96 26.3 23.0 24.0 24.4 ± 3.38 24.3 ± 2.87	24.3 + 2.8	_
LW+P+N	48.9	47.6	49.9	48.8 ± 2.31	50.3	48.6	50.8	8.9 47.6 49.9 48.8 ± 2.31 50.3 48.6 50.8 49.9 ± 2.31 49.4 ± 2.39	49.4 ± 2.3	6
LW+E	4.39	4.42	4.05	4.29 ± 0.41	4.60	4.77	5.15	4.39 4.42 4.05 4.29 ± 0.41 4.60 4.77 5.15 4.84 ± 0.56 4.56 ± 0.75	4.56 + 0.7	
LW+P+E	4.33	4.77	3.96	$4.35 \pm 0.81$	4.34	4.38	4.39	$4.33$ $4.77$ $3.96$ $4.35 \pm 0.81$ $4.34$ $4.38$ $4.39$ $4.37 \pm 0.05$ $4.36 \pm 0.51$	4.36 ± 0.51	
LW+N+E	22.8	21.9	24.3	23.0 ± 2.42	24.0	24.3	24.6	22.8 21.9 24.3 23.0 ± 2.42 24.0 24.3 24.6 24.3 ± 0.08 23.5 ± 2.27	23.5 ± 2.27	
LW+P+N+E	46.6	45.9	52.8	48.4 ± 7.60	55.8	50.5	52.0	6.6 45.9 52.8 48.4 ± 7.60 55.8 50.5 52.0 52.8 ± 5.46 50.6 ± 7.59	50.6 + 7.59	_

LW = Lake Water P = 0.05 mg/1 P spike N = 1.00 mg/1 N spike E = 1.00 mg/1 EDTA spike

Parameter and Units	berore Processing	Arter Processing
рН	7.30	7.40
Specific Conductance (umho cm ⁻¹ )	36	100
Total Kjeldahl Nitrogen (mg N $1^{-1}$ )	9.0	0.4
NH ₃ -N (mg N 1 ⁻¹ )	<0.01	0.04
$NO_2^- + NO_3^ N \text{ (mg N 1}^{-1}\text{)}$	80.0	0.08
Dissolved Ortho-phosphate (mg P $1^{-1}$ )	<0.01	0.01
Total Phosphorus (mq P $1^{-1}$ )	0.04	0.05

TABLE G-3 (cont.)

ALGAL GROWTH POTENTIAL

Cycle 5 Station 10

Date Collected 9/26/78 Date Processed 9/28/78

				Growth F	Growth Response, mg/l Ach-Free Dry Wt.	mg/1 As	h-Free	Dry Wt.		
		12	12 Day Count			14	14 Day Count	unt	Overall	=
		Policati	d			eplicat	e			
Freatment		1 2	3	x ± 2a	1	1 2 3	3	$\bar{x} \pm 2\sigma$	x ± 20	٥
LW	2.70	3.36	3.56	3.21 ± 0.9	3.32	2.81	2.95	2.70 3.36 3.56 3.21 ± 0.90 3.32 2.81 2.95 3.03 ± 0.53 3.12 ± 0.69	3.12 ±	0.69
LW+P	3.54	3.28	3.05	3.29 · 0.4	19 3.13	3.07	3.30	$3.28$ $3.05$ $3.29 \cdot 0.49$ $3.13$ $3.07$ $3.30$ $3.17 \pm 0.24$ $3.23 \cdot 0.37$	3.23	0.37
LW+N	4.89	5.13	4.67	4.90 ± 0.	16 4.69	4.74	4.73	5.13 4.67 4.90 ± 0.46 4.69 4.74 4.73 4.72 ± 0.05 4.81 ± 0.35	4.81	0.35
LW+P+N	28.9	27.0	29.5	28.4 ± 2.	39 32.2	31.0	32.5	28.9 27.0 29.2 28.4 ± 2.39 32.2 31.0 32.5 31.9 ± 1.59 30.1 ± 4.27	30.1	4.27
LW+E	3.27	3.20	2.99	3.15 ± 0.	29 2.45	2.70	2.43	$3.27$ $3.20$ $2.99$ $3.15 \pm 0.29$ $2.45$ $2.70$ $2.43$ $2.53 \pm 0.30$ $2.84 \pm 0.74$	2.84 ±	0.74
LW+P+E	2.43	2.94	2.81	2.73 ± 0.	53 2.76	2.76	2.67	2.43 2.94 2.81 2.73 ± 0.53 2.76 2.76 2.67 2.73 ± 0.10 2.73 ± 0.34	2.73 ±	0.34
LW+N+E	4.11	4.78	4.55	4.48 ± 0.	58 4.90	4.66	4.70	4.11 4.78 4.55 4.48 ± 0.68 4.90 4.66 4.70 4.75 ± 0.26 4.62 ± 0.55	4.62	0.55
LW+P+N+E	35.0	36.3	38.2	36,5 ± 3.	22 34.2	28.5	32.7	35.0 36.3 38.2 36.5 ± 3.22 34.2 28.5 32.7 31.8 ± 5.91 34.2 ± 6.68	34.2	6.68

Background Water Quality

LW = Lake Water
P = 0.05 mg/l P spike
N = 1.00 mg/l N spike
E = 1.00 mg/l EDTA spike

	Before	After
Parameter and Units	Processing	Processing
Ha	7.70	7.85
Specific Conductance (umho cm ⁻¹ )	06	26
Total Kjeldahl Nitrogen (mg N $1^{-1}$ )	0.7	0.4
NH ₂ -N (mg N 1-1)	<0.01	0.04
$NO_2^- + NO_2^ N \text{ (mg N 1}^-\text{I})$	0.04	0.04
Dissolved Ortho-phosphate (mg P 1 ⁻¹ )	<0.01	0.01
Total Phosphorus (mg P $1^{-1}$ )	0.02	0.03

TABLE G-3 (cont.)
ALGAL GROWTH POTENTIAL

Date Collected 9/26/73 Date Processed 9/28/78

					wth Res	ponse,	mg/1 As	h-Free	Growth Response, mg/1 Ash-Free Dry Wt.			
		12	12 Day Count				14 Day Count	Day Co	unt		Overall	rall
1		deplicat	e			¥	eplicat	a				
Treatment		1 2 3	3	×	$\overline{x} \pm 2\sigma$ 1 2 3	1	2	3	x ± 20	2₀	İ×	x ± 20
LW	3.03	.03 2.77 2.86 ± 0.30 2.76 2.72 2.80 2.76 ± 0.08 2.81 + 0.22	2.77	2.86	± 0°30	2.76	2.72	2.80	2.76	0.08	2.81	• 0.22
LW+P	2.72	2.39	2.90	2.84	± 0.20	3.14	3.14	3.07	3.12	0.08	2.98	.72 2.39 2.90 2.84 ± 0.20 3.14 3.14 3.07 3.12 ± 0.08 2.98 · 0.34
LW+N	9.11	8.38	8.21	8.57	± 0.96	10.8	11.9	10.7	11.1	1.33	9 85	.11 8.38 8.21 8.57 ± 0.96 10.8 11.9 10.7 11.1 ± 1.33 9.85 ± 3.00
LW+P+N	30.7	30.2	30.1	30.3	± 0.64	33.8	31.9	34.2	33.3	2.46	31.8	.7 30.2 30.1 30.3 ± 0.64 33.8 31.9 34.2 33.3 ± 2 46 31 8 ± 3 63
LW+E	2.89	3.04	2.62	2,85	± 0.93	2.83	2.67	2.54	2.68	0 20	2 77	- 0 38
LW+P+E	2.66	2.73	2.92	2.77	± 0.27	3.29	3.44	3.46	3.40	0.19	3.08	66 2.73 2.92 2.77 ± 0.27 3.29 3.44 3.46 3.40 ± 0.19 3.08 ± 0.72
LW+N+E	8.22	7.96	7.73	7.97	± 0.49	8.64	8.51	8.56	8.57	0.13	8.27	.22 7.96 7.73 7.97 $\pm$ 0.49 8.64 8.51 8.56 8.57 $\pm$ 0.13 8.27 $\pm$ 0.73
LW+P+N+E	27.6	30.6	32.2	30.1	± 4.67	32.6	37.1	33.6	34.4	4.73	32.3	.6 30.6 32.2 30.1 ± 4.67 32.6 37.1 33.6 34.4 ± 4.73 32.3 ± 6.31

Water mg/l P spike mg/l N spike mg/l EDTA spike	
LW = Lake P = 0.05 N = 1.00 E = 1.00	

Parameter and Units	Before Processing	After Processing
Н	8.10	8.10
Specific Conductance ( $\mu mho cm^{-1}$ )	135	130
Total Kjeldahl Nitrogen (mg N 1 ⁻¹ )	0.7	0.4
NH3-N (mg N 1-1)	<0.01	0.03
$140_2^{-} + 10_3^{-} - 10 \text{ (mg N 1}^{-1}\text{)}$	0.04	0.04
Dissolved Ortho-phosphate (mg P $1^{-1}$ )	0.01	0.02
Total Phosphorus (mg P $1^{-1}$ )	0.05	0.02

TABLE G-3 (cont.) ALGAL GPOWTH POTENTIAL

Date Collected 9/26/78 Date Processed 9/28/78

Growth Response, mg/1 Ash-Free Dry Wt.

						1	,		
		12	12 Day Count	unt 14 Day Count		14	Day Co		Overall
		Replicate	9		Ě	eplicat	<b>.</b>		
Treatment	-	2	3	x = 20	-	1 2	3	$\bar{x} \pm 2\sigma$	x ± 20
L W	1.36		1.36	1.36 1.36 1.36 $\pm$ 0.00 1.51 1.59 1.45 1.52 $\pm$ 0.14 1.44 $\pm$ 0.19	1.51	1.59	1.45	1.52 ± 0.14	1.44 + 0.19
LW+P	1.33	1.36	1.31	1.36 1.31 1.33 $\div$ 0.05 1.32 1.42 1.26 1.33 $\div$ 0.16 1.33 $\div$ 0.11	1.32	1.42	1.26	$1.33 \pm 0.16$	$1.33 \pm 0.11$
LW+N	2.24		2.11	2.12 2.11 2.16 · 0.14 2.40 2.57 2.83 2.60 · 0.43 2.38 · 0.57	2.40	2.57	2.83	2.60 : 0.43	2.38 · 0.57
LW+P+N	24.3	25.4	26.7	25.4 26.7 25.5 + 2.40 25.2 23.4 24.1 24.2 + 1.81 24.9 + 2.33	25.2	23.4	24.1	24.2 ± 1.81	24.9 + 2.33
LW+E	1.25	1.25	1.33	.25 1.25 1.33 1.28 $\pm$ 0.09 1.49 1.39 1.34 1.41 $\pm$ 0.15 1.34 $\pm$ 0.18	1.49	1,39	1.34	1.41 ± 0.15	1.34 + 0.18
LW+P+E	1.27	2.25	1.24	2.25 1.24 1.59 + 1.15 1.46 1.42 1.29 1.39 ± 0.18 1.49 ± 0.77	1.46	1.42	1.29	1.39 ± 0.18	1.49 : 0.77
	2.51		2.67	2.67 2.67 2.62 ± 0.18 2.70 2.96 2.94 2.87 ± 0.29 2.74 ± 0.35	2.70	2.96	2.94	2.87 : 0.29	2.74 · 0.35
LW+P+N+F	25.4	26.0	22.6	26.0 22.6 24.7 ± 3.63 27.6 29.4 27.4 28.1 ± 2.20 26.4 ± 4.65	27.6	29.4	27.4	28.1 ± 2.20	26.4 ± 4.65

Background Water Quality

LW = Lake Water
P = 0.05 mg/l P spike
N = 1.00 mg/l N spike
E = 1.00 mg/l EDTA spike

Parameter and Units	Berore Processing	Arter Processing
Н	8,40	8,30
Specific Conductance (umho cm ⁻¹ )	95	06
Total Kjeldahl Nitrogen (mg N $1^{-1}$ )	9.0	0.4
$NH_{3}-N \ (mg \ N \ 1^{-1})$	<0.02	0.02
$NO_2 + NO_2 - N \text{ (mg N 1}^-\text{I)}$	<0.01	<0.01
Dissolved Ortho-phosphate (mg P 1-1)	<0.01	<0.01
Total Phosphorus (mg P $1^{-1}$ )	0.01	0.01

TABLE G-3 (cont.) ALGAL GROWTH POTENTIAL

Date Collected 9/25/78 Date Processed 9/28/78

Cycle 5 Station 13

				Grow	th Res	ponse, I	Growth Response, mg/l Ash-Free Dry Wt.	h-Free	Dry Wt.			
		12	12 Day Count	I			14	14 Day Count	unt		Overall	all
		Replicate	a			B	Replicate	a		_	1	
Treatment	-	2	3	$\overline{x} \pm 2\sigma$	20	1	2	3	$\overline{x} \pm 2\sigma$	-	x + 20	20
3	5.20	4.60	4.60 4.63	4.81 ± 0.68	0.68	4.73	4.54	4.90	4.73 4.54 4.90 4.72 ± 0.36		1.77 ±	4.77 ± 0.49
LW+P	6.92	7.61	8.09	7.54 ±	1.18	9.01	9.08	7.63	7.54 ± 1.18 9.01 9.08 7.63 8.57 ± 1.64	24.	3.06 ±	8.06 ± 1.70
LW+N	4.71	4.55	4.73	71 4.55 4.73 4.66 ± 0.20 4.32	0.20	4.32	4.47 4.82	4.82	4.54 ± 0.51 4.60 ± 0.37	51 4	1.60	0.37
LW+P+N	27.4	27.7	27.6	27.6 ±	0.31	30.6	29.6	30.5	27.7 27.6 27.6 ± 0.31 30.6 29.6 30.5 30.2 + 1.10 28.9 ± 3.01	10 28	3.9	3.01
LW+E	4.58	4.90	4.74	4.90 4.74 4.74 ± 0.32	0.32	4.55	4.55 4.55	4.73	4.73 4.61 ± 0.21 4.68 ± 0.28	21 7	¥ 89 1	0.28
LW+P+E	7.44	8.07	7.79	7.79 7.77 ± 0.63 9.21 8.13 8.93	0.63	9.21	8.13	8.93	8.76 ± 1.12	3 21	3.26 ±	8.26 ± 1.36
LW+N+E	4.67	4.57	4.43	4.56 ±	0.24	4.22	4.54	4.43	4.43 $4.56 \pm 0.24$ $4.22$ $4.54$ $4.43$ $4.40 \pm 0.33$ $4.48 \pm 0.31$	33 4	1.48	0.31
LW+P+N+E	31.6	31.1	30.6	31.1 ±	1.00	37.6	31.9	31.5	31.1 30.6 31.1 ± 1.00 37.6 31.9 31.5 31.7 ± 6.82 32.4 ± 5.19	32 35	4 +	5.19

LW = Lake Water
P = 0.05 mg/l P spike
N = 1.00 mg/l N spike
E = 1.00 mg/l EDTA spike
Specific C

Parameter and Units	Before Processing	After Processing
Hd	9.00	9.10
Specific Conductance (umho cm ⁻¹ )	165	178
Total Kjeldahl Nitrogen (mg N 1-1)	0.5	0.4
$NH_3-N \ (mg \ N \ 1^{-1})$	0.04	0.02
$NO_2 + NO_2 - N \text{ (mg N 1}^{-1}\text{)}$	0.15	0.16
Dissolved Ortho-phosphate (mg P 1-1)	<0.01	0.01
Total Phosphorus (mg P $1^{-1}$ )	0.04	0.04

TABLE G-3 (cont.) ALGAL GROWTH POTENTIAL

Station 14 Cycle 5

Date Collected 9/27/78 Date Processed 9/28/78

				Gro	*th Res	ponse,	Growth Response, mg/l Ash-Free Dry Wt.	h-Free	Dry Wt.			
		12	12 Day Count				7	14 Day Count	unt		Overall	rall
		Replicate	٥			, X	Replicate	9			!	
Treatment	-	2	3	× ± 20		1	2 3	3	x ± 20	,	x + 2a	201
LW	2.26	2.16	2.22	2.21	± 0.10	2.25	1.67	2.09	2.26 2.16 2.22 2.21 $\pm$ 0.10 2.25 1.67 2.09 2.00 $\pm$ 0.60 2.11 $\pm$ 0.45	09.	2.11	± 0.45
LW+F	16.6	17.1	18.0	17.2	1.42	16.0	16.7	17.0	17.1 18.0 17.2 ± 1.42 16.0 16.7 17.0 16.6 ± 1.03 16.9 ± 1.33	.03	16.9	1.33
1M+12	2.43	2.28	2.27	2.33	. 0.18	2.49	2.52	2.76	2.43 2.28 2.27 2.33 0.18 2.49 2.52 2.76 2.59 0.30 2.45 0.38	30	2,45	. 0.38
LW+P+ti	23.7	25.0	24.3	24.3	± 1.30	27.0	25.9	25.5	25.0 24.3 24.3 ± 1.30 27.0 25.9 25.5 26.1 ± 1.55 25.2 ± 2.35	. 55	25.2	2.35
LW+E	2.29	2.34	2.27	2.30	+ 0.07	2.40	2.31	2.11	2.34 2.27 2.30 + 0.07 2.40 2.31 2.11 2.27 + 0.30 2.29 ± 0.20	.30	2.29	± 0.20
LW+P+E	16.4	16.9	15.9	16.4	+ 1.00	16.2	16.0	17.5	16.9 15.9 16.4 + 1.00 16.2 16.0 17.5 16.6 ± 1.63 16.5 ± 1.22	.63	16.5	± 1.22
LW+N+E	2.02	1.94	2.09	2.02	± 0.15	1.29	1.34	1.32	2.02 1.94 2.09 2.02 ± 0.15 1.29 1.34 1.32 1.32 ± 0.05 1.66 ± 0.77	.05	1.66	. 0.77
LW+P+N+E	24.9	24.6	24.4	24.6	± 0.50	28.3	28.6	29.9	24.6 24.4 24.6 ± 0.50 28.3 28.6 29.9 28.9 ± 1.70 26.8 : 4.84	. 70	26.8	4.84

LW = Lake Water	Parameter and Units	Before Processing	After Processing
P = 0.05  mg/l P spike N = 1.00  mg/l N spike	На	7.50	7.50
E = 1.00 mg/l EDTA spike	Specific Conductance (umho cm ⁻¹ )	210	200
	Total Kjeldahl Nitrogen (mg N $1^{-1}$ )	0.3	0.2
	$NH_2-N \ (mg \ N \ 1^{-1})$	0.01	<0.01
	$NO_2^- + NO_2^ N \text{ (mg N 1}^-\text{I)}$	0.37	0,38
	Dissolved Ortho-phosphate (mg P 1 ⁻¹ )	<0.01	<0.01
	Total Phosphorus (mg P $1^{-1}$ )	0.01	0.01

TABLE G-3 (cont.)
ALGAL GROWTH POTENTIAL

9/28/78	
Processed	
Da te	
9/25/78	
Collected	
Date C	

				ore.	wth Res	Growth Response, ma/l Ash-Free Dry Wt.	ma/1 Ast	h-Free	Dry Wt.		
		12	12 Day Count				14	14 Day Count	unt	) 0	Overall
		an 10at	a			ď	eplicati	ا		_	
Treatment		1 2 3	٣	+1  ×	x ± 20	1 2 3	2	3	$\tilde{x} \pm 2\sigma$	×	x : 2a
3	9.48	9.15	8,63	9.09	₹ 0.86	9.36	8.34	8.70	9,48 9,15 8,63 9,09 ± 0,86 9,36 8,34 8,70 8,80 ± 1,03 8,94 ± 0,91	8.94	± 0.91
1 W+P	13.9	14.8	15.1	14.6	± 1.25	15.1	17.8	16.4	3 9 14.8 15.1 14.6 ± 1.25 15.1 17.8 16.4 16.4 ± 2.70 15.5 ± 2.75	15.5	+ 2.75
N+M	10.4	10.7	9.80	10.3	± 0.92	10.2	9.63	8.99	0 4 10 7 9 80 10.3 ± 0.92 10.2 9.63 8.99 9.63 ± 1.21 9.96 1.21	96.6	1.21
N+D+N	33.7	34.2	31.0	33.0	± 3,44	28.9	28.7	30.4	33 7 34 2 31 0 33 0 ± 3 44 28 9 28 7 30 4 29 3 ± 1.86 31.2 ± 4.69	31.2	± 4.69
- H-F	7 22	6 93	7 89	7.35	+ 0.98	9.08	8.29	8.66	7 22 6 93 7 89 7 35 + 0 98 9 08 8 29 8 66 8 68 + 0.79 8 01 + 1.66	8.01	1.66
LW.L	16.0	15.9	16.6	16.2	± 0.76	16.4	16.4	15.5	6 0 15 9 16 6 16 2 ± 0.76 16.4 16.4 15.5 16.1 ± 1.04 16.1 ± 0.82	16.1	. 0.82
1 - N + N + N -	200	9.44	8.78	8.85	± 1.11	8.85	8.14	8.39	8 34 9 44 8 78 8 85 ± 1,11 8,85 8,14 8,39 8,46 ± 0,72 8,66 ± 0,94	8.66	+ 0.94
LW+P+N+E	31.5	32.6	32.1	32.1	1.10	29.8	31.4	27.7	1.5 32.6 32.1 32.1 ± 1.10 29.8 31.4 27.7 29.6 ± 3.71 30.9 ± 3.62	30.9	3.62

Background Water Judiity	lairty	
	Before	After
Parameter and Units	Processing	Processing
Ha	8,40	8,30
Specific Conductance (umho cm ⁻¹ )	162	170
Total Kieldahl Nitrogen (mg N $1^{-1}$ )	0.5	0.3
NHN (mg N 1-1)	<0.02	0.12
NO_ + NO N (mq N 1 ⁻¹ )	0.12	0.25
Discolved Ortho-phosphate (mg P 1-1)	0.01	0.02
Total Phosphorus (mg P $1^{-1}$ )	0.05	0.04

LW = Lake Water
P = 0.05 mg/l P spike
N = 1.00 mg/l N spike
E = 1.00 mg/l EDTA spike

TABLE G-3 (cont.) ALGAL GROWTH POTENTIAL

Date Collected 9/25/78 Date Frocessed 9/28/78

<u>+</u>		
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3		
4		
-		
C		

				<u> </u>	Growth Response, mg/ 1 Ash-rice of y Mc.	201156	(N)   NS	ובו					
		12	12 Day Count	unt			14	14 Day Count	unt		Overall	erall	
		Renlicate	a			$\mathbb{Z}$	eplicat	a			;		
Treatment	-	2 3	3	x ± 2a	. 2a		1 2 3	3	×	$\ddot{x} \pm 2\sigma$	×	x ± 2 ₀	
LW	24.8	21.7	23.0	23.2	21.7 23.0 23.2 ± 3.11 28.2 22.3 23.2 24.6 ± 6.36 23.9 : 4.73	28.2	22.3	23.2	24.6	£ 6.36	23.9	4	73
LW+P		23.9	23.4	23.1	23.9 23.4 23.1 ± 2.09 22.7 21.5 22.8 22.3 ± 1.45 22.7 ± 1.79	22.7	21.5	22.8	22.3	± 1.45	22.7		6
LW+N	30.2	29.6	32.0	30.6	29.6 32.0 30.6 + 2.50 32.0 29.1 31.8 31.0 + 3.24 30.8 + 2.62	32.0	29.1	31.8	31.0	± 3.24	30.8	2	29
N+d+M1	53.4	59.9	48.2	53.8	59.9 48.2 53.8 ±11.7 57.7 56.8 58.9 57.8 ± 2.11 55.8 ± 8.70	57.7	26.8	58.9	57.8	± 2.11	55.8	8	2
LIS+E		24.9	25.8	25.8	24.9 25.8 25.8 ± 1.90 22.4 23.0 23.9 23.1 ± 1.51 24.5 ± 3.36	22.4	23.0	23.9	23.1	± 1,51	24.5	3	36
LW+P+E		23.4	22.9	24.7	23.4 22.9 24.7 + 5.28 24.8 26.0 27.0 25.9 + 2.20 25.3 + 3.87	24.8	26.0	27.0	25.9	2.20	25.3	+ 3	87
LW+N+E		32.7	37.8	34.8	32.7 37.8 34.8 ± 5.30 31.1 33.7 35.0 33.3 ± 3.97 34.1 ± 4.53	31,1	33.7	35.0	33,3	3.97	34.1	4	53
LW+P+N+E	62.5	6.09	59.0	60.8	60.9 59.0 60.8 ± 3.50 52.6 59.4 56.6 56.2 ± 6.84 58.5 + 7.00	52.6	59.4	9.95	56.2	± 6.84	58.5	1 1	8

Parameter and Units	рН	Specific Conductance	Total Kieldahl Nitroc
LW = Lake Water	P = 0.05  mg/l  P  spike $N = 1.00  mg/l  N  spike$	E = 1.00  mg/l EDTA spike	

Parameter and Units	Before Processing	After Processing
H	8.20	8.00
Specific Conductance (umho cm ⁻¹ )	145	150
Total Kjeldahl Nitrogen (mg N 1 ⁻¹ )	0,5	0.5
$_{\rm NH_2-N}$ (mg N $_{\rm 1}^{-1}$ )	0.05	0.05
NO, + NO, - N (mg N 1 1)	0.53	0.52
Dissolved Ortho-phosphate (mg P $1^{-1}$ )	0.04	0.07
Total Phosphorus (mg P $1^{-1}$ )	0.09	0.15

TABLE G-3 (cont.) ALGAL GROWTH POTENTIAL

Date Coll
13
Station

Cycle 5

8//92/6	
Processed	
Date	
9/56/78	
6	İ
llected 9/	i
Date Collected 9/	

				פינ	owth Res	ponse, r	ng/ I ASI	I-I ree	Jry wt.			
		12	12 Day Count	unt			14	Day Cor	ınt		Overall	
		Politati	6			R	eplicate	c			1	
Treatment	-	2 3	~	۱×	$\overline{x} \pm 2\sigma$ 1 2 3 $x \pm$	1	2	3	x ± 2σ		x ± 20	5
M L	3.35	3.28	3.26	3.30	± 0.09	3.51	3.14	3.17	35 3.28 3.26 3.30 ± 0.09 3.51 3.14 3.17 3.27± 0.41 3.29 ± 0.27	0.41	3.29 ±	0.27
LW+F	3.29	3.40	3.31	3.33	± 0.12	3.08	3.26	3.24	29 3.40 3.31 3.33 ± 0.12 3.08 3.26 3.24 3.19± 0.20 3.26 ± 0.21	0.20	3.26 ±	0.21
LW+R	9.61	8.94	8.80	9.12	± 0.87	9.38	10.4	9.76	61 8.94 8.80 9.12 ± 0.87 9.38 10.4 9.76 9.85± 1.03 9.48 ± 1.17	1.03	9.48	1.17
LW+P+N	37.0	39.5	36.4	37.6	± 3.29	34.1	33.3	34.2	n 39 5 36.4 37.6 ± 3.29 34.1 33.3 34.2 33.9 ± 0.99 35.8 ± 4.66	0.99	35.8 ±	4.66
LW+E	3.35	3.23	3.71	3, 43	0.50	3,43	3,23	3.08	35 3.23 3.71 3.43 ± 0.50 3.43 3.23 3.08 3.25± 0.35 3.34 ± 0.44	0.33	3.34 ±	0.44
LW+P+E	3.46	3.46	3, 39	3.44	₹ 0.08	3.21	3.11	3.20	46 3.46 3.39 3.44 ± 0.08 3.21 3.11 3.20 3.17± 0.11 3.31 ± 0.30	0.11	3.31 ±	0.30
LW+N+E	10.4	9.83	9.45	9.89	₹ 0.96	9.44	9.62	9.28	4 9.83 9.45 9.89 ± 0.96 9.44 9.62 9.28 9.45± 0.34 9.67 ± 0.81	0.34	9.67 ±	0.81
LW+P+N+E	35.2	35.2	37.2	35.9	± 2.31	35.5	33.3	32.9	2 35.2 37.2 35.9 ± 2.31 35.5 33.3 32.9 33.9 ± 2.80 34.9 ± 3.15	2.80	34.9	3.15

		Before	After
= Lake	parameter and Units	Processing	Processing
P = 0.05  mg/ P  spike D = 1.00  mg/ N  spike	Hd	7.50	7.55
1.00	Specific Conductance (umho cm ⁻¹ )	135	140
	Total Kjeldahl Nitrogen (mg N $1^{-1}$ )	0.6	0.3
	NH3-N (mg N 1-1)	0.03	0.03
	NO ₂ + NO ₂ - N (mg N 1 ⁻¹ )	0.05	0.05
	Dissolved Ortho-phosphate (mg P 1-1)	0.01	0.02
	Total Phosphorus (mg P $1^{-1}$ )	0.04	0.02

APPENDIX H
PHYTOPLANKTON DATA

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H-3	Phytoplankton, Cycle 3, July 17-20, 1978	H-21
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<b>⊔</b> _6	Phytoplankton, Cycle 6, November 28-30, 1978	H-51

TABLE H-1a

**LAKE SEMINGLE WATER QUALITY MANAGEMENT STUDY - PHYTOPLANKTON (CELLS/M.) **
CORPS OF ENGINEERS (CONTRACT DACEDI-78-C-0101) FNASE 1. CYCLE 1
(April 17-21, 1978)

TAKUNCMIC CLASSIFICATION				NUMBER	CF ORGAN	ISMS AT ST	) :NO1141	NUMBER OF ORGANISMS AT STATION: (CELLS/ML	~	
	-	N	n	•	n •	•		ec •	•	•
±++++++++++++++++++++++++++++++++++++			***		• • • • • • • • • • • • • • • • • • • •	••••••				
CYANDPHYCEAE	* • •		•••	•••	•••	• • • •	• • • •	• • • •	• • • •	• • • •
				• • •	•••	• • •	• • •	• • •	• • •	. • •
ANABAÉNA SP APIIANDCAPSA DEL ICATISSIMA APIIANUTHECF NIDULANS	111	111	mii M			••••			••••	• • • • •
CHROCCCCUS DISPERSUS CHROCCCCCUS DISPERSUS V MINOR CHROCCCCUS MINIMUS	111	111	111	111	111		111			
CHROCCICCUS MINUTUS CHROUCOCCUS SP GLCECCAPSA SP	111	111	111		111	161	' _E '	111		•••
MEPISHOPEDIA TENUISSINA MICHCUSTIS INCEFTA OSCILLATORIA SP	111	111		• • • • •	181	1168	111	270	511	
SPIRIL INA SP	1	1	1					;	1	
CHEGROPHYCEAE	•	• • • • •				• • • • •		•	• • • • •	••••
ANK ISTRODE SAUS CONDLUTUS ANK ISTRODE SAUS FALGATUS ANKISTRODE SAUS NAMIOSELENE	111	111	110			110			1 • • • •	• • • • •
ANKISTRODESPUS SPIRALIS CHAPACTUM AMPIGLUM CHLAPY CUMCNAS SP	1801	101	•11	111	***	n 1 0	110	•11	<b>6</b> 11	
CHLORELLA SP CHLOSDEGECUM MUNICOLA CLOSTENIUM SP	111	<u> </u>	111	<b>n</b> 11			••••			• • • •
COELASTRUM CAMBRICUM COFLASTRUM MICROPORUM COFLASTRUM MURUS	111	111	101	111		111		141	33+	• • • • ·

TABLE H-1a (cont.)

			•••	•••	•••••		•••	•••••	•	
TANUNCHIC CLASSIFICATION				NUMITER	CF GRGANISMS	4	) :MOIIEIS	(CELLS/ML)	()	
		2			8			•		2
•										
+ COFLASTRUM PROBOSCIDEUM	5.		• •	1 1		: :				
CRUCICENIA APICLIATA	1 1	1 1		• •			• •		• •	• • •
+ CRUCIGENIA FENESTRATA + CHUCIGENIA GUADRATA	11	11	, 1	11	11		11	11		•••
	•		-			,			•	•
+ DICTYDSPHAFRIUM PULCHELLUM + GULINKINIM PAELMIM + + GULINKINIM PAELMIM + + KINCHWIMIM LLA IL NAPIS	111	111	114			,,,		111	д· ·	
	114	110	11.	l i in	111	111	111	••••	110	111
	161	111	111	211	111	111	111	111	111	
	1 100 1	111	1 <u>2</u> 1	111	121	18,	111	121	121	151
+ SCENEDESMUS APMATUS + SCENEDESMUS APMATUS V DICAUDATA + SCENEDESMUS DIJUCA +	211	211	221	100 T	251	ac i	10 1 1 10 1 1	911	<b>5</b> 11	0,11
* SCFNEDESMUS DENTICULATUS + SCFNEDESMUS QUADRICAUDA + SCHREFOERIA SETICENA +	1 4 1	126	121	1 2 1	191	i mo	187	1 10 1	1 52 +	• • • •
SELANASTRUM MINUTUM +  • STAUGASTRUM SP  • TETRACCHUN CAUDATUM +	111	111		101	1 • 1	,,,	141	1 • 1	111	
* TETAREDRON MEGAL ARE * * TETAREDRON MEGAL ARE * * 1 TETARSTWUM FLEGANS * * * * * * * * * * * * * * * * * * *	111	111	111	111	111	111	111	111	<b>4</b> 11	• • • •
16 18	1	ı			,	5	ı		1	••••
CRYPTOPHYCEAE										
CRYPIOMONES SP	1	,	(	1	,	,	,	ı	,	• • • • •

TABLE H-la (cont.)

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TAXDACMIC CLASSIFICATION				NUMBER	CF ORGANI	NUMBER OF ORGANISMS AT STATION:	) :NO111	(CELLS/ML	<u> </u>	• • • •
	-	~	n		•			£		2
DINDPACE AE			•		•			•••••	• • • • •	
	1.1		11	11	11	11	11	11	11	11
X ANT HOPHY CE A E		•	• • • • •	• • • • •	•				•	
> '	,	,	,		1	1	1	,	,	
CHRY SCPHY CEAE										
	•	1	,	++++		١	,	,	1	1
BACILLAPICPHYTA (DIATCHS)				•	•					
ACHNANTHES CLEVET  ACHNANTHES LANCELATA  ACHNANTHES LANCECLATA		110	111	111	111	111	116	111	11*	111
ACHMANTHE SP AMPHINEURA PFLLCIDA AMPHGRA PERPUSSILLA	111	111	110	111	111	111	114	111		,,,,
ANDMUEONFIS FAILIS ASTERIEMELA FORMOSA COCCEN-15 DISCULUS	20 E	363	i æ i	1 2 1	181	201	181	172	121	187
COCCOMEIS PEDICULIS COCCOMEIS PLACENTULA COCCOMEIS PLACENTULA	111	111	,,,		111	111	111	111		111

TABLE H-la (cont.)

TAKLALWIC CLASSIFICATICA				3	MCMHER CF	SMS INVENT	7	S1 A1 10N:		CELL CAM		
•••	-	۰.	, •	•	٠	'n	٠	•	•	* ( ) *	•	9
					•	•	•	•			•	
٠.		-		: •	•				•		~	-
+ CYCLUFFLA CLONERATA + CYCLCTFLA WENEGHINIANA		= 1		••	÷ +	• 1	- 5	••	••	= 1	20	. 38
			•	•	•		•	•	•	į		•
CYCLCIELLA STILLIGERA     CYMBELLA DE ICATILA		<u>.</u> 1	<i>~</i> •	• •	 	' 1	91	••	• • • • • • • • • • • • • • • • • • •	-	۳, ۱	<b>0</b> 1
		1		•	• • • •	ı		•	1	•		•
+ CYMBELLA MICHOCEPHALA	1	,	• •	• •	,	•	••	••	••	1	••	••
+ CVMSTLLA BINDTA	, ,	, ,	••	• •	, in		: 1	• •	••		••	••
			•	٠	•		. •	•	•		. •	•
+ CYMBELLA TUMIDA	11	1 1	• •	••	, ,		• •	٠.	••		• •	••
	1	1	•	•		•		•	•	•		•
+ EUNDTEA IFNFLLA	,		• •	• •	٠٠		••	• •	••	,	••	••
FUNDLIA SP	1	1	•	•	•	•	•	•	•			•
+ FRAGILARIA EREVISTRIATA		•	' • •	••	• •	•	! • •	••	+ <b>+</b>		••	••
FRAGILARIA CAPUCINA	1	,		••	1	•	•	•	•	•	•	•
FRAGILANIA CONSTRUENS	01		• •	• •	21			• •	••	1	• •	• •
	•		••	• •	• •	•		• •	• •	•	•	•
+ FRAGILARIA LIFTCSTAURON	11	11	• •	• •		- 1	• •	• •	• •	, ,	••	• •
+ FRAGELANTA PINTATA		1	••	• •	• •	٠	••	• •		1	•	• •
	1	1	. +	•	1	•	. +	•	•	,	•	•
+ COMPHONERS DARVILLE	· ·	1 1	• •	٠.	• •	• •		••		• 1	• •	• •
			•	•	,	)	•		• •		•	•
+ GYROSIGMA ACCRENATOR	1 (	1 1	• •	٠.	• •	1	• •	• •	+ •	• 1	• •	• •
+ MELDSIER AMBIGUA	20	:	+ 26	. •	16	56	-	•	9	9	20	• • •
MELOSIFA	2250	1656	1560	• •	733 +	1377	+ 1062		+ + E	1175	1682	1401
+ MFLOSINA GRANULATA + MFLOSINA GRANULATA V ANGUSTISSIMA	- N	<u> </u>	<u>.</u>	• •	32	F 1	• •	••	••	- S	••	~ *
2 MAT 04 V AST ACT 1944 +	,		• •	••	••	•		••	••	,	•	••
+ NAVICULA CHYPTOCEPHALS	1	1	•	•	en	•	-	•	•	Ξ	12	
+ NAVICULA EXIGLA V CAPITATA		1	• •	٠.	• •	•		• •			•	•
+ NAVICULA FRACTA	1	1	•	•	•	•		•	•	•	1	
+ NAVICULA GASTRUM	11	1 4	••	٠.	• •	• 1	• •	• •	• •	1 (	•	• •
		,		•	•	1	•	• •	•		•	• •
+ NAVÍCULA LATENS	11	11	• •	٠.	+ +	• •	••	٠.	• •	( )		• •
PUPULA	٠	1	•	•	1	^	n		•	•	•	•
+ MAVICULA SALINARIUM V INTERMEDIA	٥	r		• •	• • •	•	n	• •	+ +	'	,	•
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TABLE H-la (cont.)

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MITZSCHIA PALEACEA + MITZ: MIA SP + UPEPMORA MARTVI	111	t i 1	O 1 1	W ( )	•••	1-0-1	ıñı	151	104	
+ PINNULARIA SP + STEPFANDDISCUS SP + SURIRELLA ATOMUS	110	111	,,,	1 1 10	111	nii	• 1 1	•11	111	111
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TABLE H-1b

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(April 17-21, 1978)

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TABLE H-1b (cont.)

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TABLE H-1b (cont.)

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TABLE H-1b (cont.)

	• •			0 835808	# ORGANI!	NUMBER OF ORGANISMS AT STATION! (CELLS/ML	J) (MO14	ELLS/ML	_	
	:	. 51		•	•	•		:	•	•
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	111	11	111	m I			11	•	•••	
מו יונייניים מערור ויי	• •	1	••		· •		,	,	•	
MITSCHIA KUTZINGIANA NITSCHIA DBIUSA V SCALPELLIFORMIS	114		111		111	11	11	11	•••	
A1123CT1	n	· •	,	,	- <b>-</b>	1	,	, ,	ı • •	
MITZSCHIA PALEACEA Mitzschia Sp	11	11	11	71	11	1 7	11	11	••	
OPEPHORA MARTY!	1	1	1	1	1	,,	1	•	•	
PINNIE ARIA SP	11	1:	11	1	,	,		'n	•	
SURINGELLA ATOMUS	'n	<u>.</u> 1	1	11	• •			••	•	
SUBLINE SP	1	· ·	1	••	1		1	••	••	
SYNCORA CAPITATA SYNCORA DELICATISSIMA	in i	1 82	11	••	11	, ,	11	11		
97.50 97.50 97.50 97.50	•		. •	• •	1	1	•	1	• •	
SYNEGRA RUMPENS V FABILARIS	•	11	1 (	11	11	•	. 1	11	• •	
SANEDRA ULNA		••	•	• • 	1	-	1	•	•	
TABELLARIA FLOCCULOSA V FLOCCULOSA	'n		1	1	1	1	1	1	•	•
				••						••
EUGL ENDPHYCEAE	• •	•	•	••	•				• •	• • •
	••	••	• •	••		. • •		••		
EUGLENA SP	••	'	•	1	1	1	,	1	•	
PHACUS SP TRACHELONGNAS SP	11	1:	••	17	10	1-	11	••	••	
		• • •		• •	7.0	•				•
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STACBILIOIUM GYMANS UNID CILIDPIDMA	m in		52	•••	11	1 4	110	1 10	10	
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6	2544	2824	2152 +	1247 +	£ 6.3	370		2241	1000	:::::::::::::::::::::::::::::::::::::::
NUMBER OF TAXA	52	+ 09	•	+ 57	*	9		-	-	4

TABLE H-2a

**LAKE SEMINILE BATER OUMLITY MANAGEMENT STUDY - PHYTOPLANKTON (CELLS/ML) **
CORPS OF ENGINEERS (CONTRACT DACWOI-78-C-0101) PHASE 1, CYCLE 2
(JUNE 5-7, 1978)

				70/67		•	•	•	•	• • • • • • • • • • • • • • • • • • • •
TAXONOMIC CLASSIFICATION		•	•	NUMBER	**************************************	SMS AT ST	)) :401.4	(CELLS/ML)	<u> </u>	• • • •
	-					۰			:	2
 	•	•		•	•	•		•		•
* ANABAENA SP * APHANICAPSA DEL ICATISSIMA * APHANDCAPSA ELACMISTA	111	<b>5</b> 11	111	111	111	111	111	111	130	1 1 6 8
APHANDCAPSA PULCERA     APHANDINGE NIDULARS     CHHOCOCCUS DISPERSUS	111	118	111	111	111	111	118	111	112	118
CHROCCCCUS LIMNETICUS     CHROUCOCCUS MINIMUS     CHROCCUCCUS PALLIOUS	121	¹ਛਾ¹	131	171	111		111	111	121	151
* MERISMOPETIA GLAUCA • MERISMOPEDIA TFAUISSIMA • MICROCYSTIS INCERTA	121	111	111	1 20 1	111		111	111	1898	4792
OSCILLATORIA SP	21	ē'	11	129	21	11	11	11	19	1 %
					•	•				•
+ ACTINASTRUM MANT2SCHII + ANKISTGUESMUS FALCATUS + ANKISTRUDESMUS NAMIUSELENE	110	191	161	111	111		121	111	122	109
+ AWKI STRODE SAUS SPIRALIS + CARTERIA SP + CHARACIUM AMBIGUUM	111	<b>0</b> 11	111	111	111	111	111	111	111	111
• CHLAMYDDWONAS SP • CHLURELLA SP • CHYDAIFLLA CMODATI	111	111	111	111	111		111	111	111	g 1 2
+ CHODATELLA SUBSALSA + CLCSTERIUM SP + CRELASIRUM CAMBRICUM	111	111	111	111	111	111	111	111	191	111
COELASTRUE MICROPORUM     COELASTRUE MIRUS		ζ, ·	;;	11	11	521	£1	<b>0</b> 1	52	£ 1

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TANDMOMIC CLASSIFICATION				•	A CREE R	080 40	ORCAN! SHS	=	STATION:	(CELLS/ML	S/ML)	_		••••
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														::
+ CUELASTRUM PHORUSCIDEUM				•	١		• •	1	'	••	••	32	•	• •
				• •	•	•	•	١		. •	•	1:	•	•
+ CLSWABTUM SP + CRUCICINIA APICULATA	11	11	••	• •	1 1	• • •	• • •	11	• • •	• • .	• • •	<u>.</u> 1		• • •
			••	٠.	1	••	• •	ı	••	• • •	• •	1	90	• •
+ CHICIGENIA TETHAPFINA + DICTYUSPEAFHTUM PULCHFLLUM	11	11	• • •	* * ·	1 1	• • •	• • •	• •	•••	• • •	•••	929	64.5	٠.٠
• ELAKATOTHBIR GFLATINGSA • EUASTHUM SP	11	• • • •	• • •		11	• • •		111	1 M (	111	• • •	111	111	• • •
		• • •	• • •	• • •			• • •			. • •	• • •	1	•	••
+ GOLENKINIA PADIATA + KINCHWERFELLA LUNARIS • KIRCHWERFIELLA LUNARIS		• • • •	· # + •	+ <b>+ +</b> +	191	• • • •	• • • •	111		• • • •	• • • •	31.7	101	
WINCHMERIELLA SOLITARIA WINCHMERIELLA SP ODCYSTIS SP	111	111	• • • •	111	110		110	• • •	117	***		111	111	• • • •
+ PANDCRIAA MCRUM + PANDUMINA SP + PFDIASTRUM BIRACIATUM	118		• • • • •	••••	111	••••			••••	••••	· • • • •	940 571 63	200	• • • •
+ PEDIASTRUM BORYANUM + PFDIASTRUM DUPLEX + PEDIASTRUM OUTUSUM	110	111	• • • •	111	111	***	111	***		****	****	127		••••
PFD1ASTRUM SIMPLEX PFD1ASTRUM TETRAS V TETRADOGN PFD1ASTRUM SP	(1)	, 1 1 1		111	111			111			••••	111	191	• • • •
PTERDMONAS SP + SCENEOFSMUS ABUNDANS + SCENEUFSMUS ACHMINATUS	1701	111	••••	111	111		111	(1)		****		144	125	• • • •
SCENEDESHUS ARMATUS SCENEDESHUS ARMATUS V BICAUDATA SCENEDESHUS RIJUGA	35	<b>6</b> 1 8		111	700			111	233	• • • • •		206 95 32	200	***
+ SCENEDESAUS DENTICULATUS + SCINEDISAUS GUACHICAUDA + SCHNCLUERIA SEFIGERA	121			111	171		++++	1 1 1	••••	•••	••••	191	1 1 5	••••
SFLANASTRUM MINLTUM STAUSASTRUM SP TETARGRUN CAUDATUM		•••			111		••••	111	++++	••••	• • • •	1 © ¢	112	• • • •
+ TETAAFCBON MINIMUM + TETAAFBUM ELEGANS + TETAAFBUM STAUMOGENIFORME + TETAAFBUM STAUMOGENIFORME	111	++++	-	•••••	111	••••	111	mii	••••	* * * * *	••••	<u>•</u> ' ~	9 1 <u>0</u>	
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TABLE H-2a (cont.)

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TANGMOMIC CLASSIFICATION				N.MOER	NUMBER OF ORGANISMS AT STATION:	SHS AT ST		(CELLS/ML	<u>_</u>	
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· UNID CRYPTOMONACACEAE	•			••••		1		1	1	1
		:								
OINOPHYCEAE		•••	•••	•••	•••	•••	•••	•••	• • •	•••
GV MUCDINIUM SP	10		† I		11			••••	11	' g
• • • • • • • • • • • • • • • • • • • •				•	•	•••••••	•			
* XANTHIPHYCEAE		* * * *	•••	•••	***	• • • •	•••	•••		•••
A BACHWOCH ORIS SP • CENTEITA GTUS NELANDRHORUS • OPHICCYTICH CAPITATUM • OPHICCYTIUM CAPITATUM V LONGISPINUM	111 1	lin i	111 1	111 1	111 1	111 7	(11 (	111 1	111 1	Ø11 †
CHRYSOPHYCEAF	•									
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BACILLARIOPHVT# (DIATOMS)	•	• • • • •	• • • •	•			•			
ACHNANTHES CLEVE!  ANTHANHES LACECLATA V DUBIA  ANTHANDIA DVALLA  ANTHONICA PERPUSSILLA  ASTENIONILLA FORMOSA  CUCCLUFIS PLACENTULA	( <b>0</b> 1 11)	111 1 <u>m</u> 1	In: 101	111 191	111 111	111	111 121	111 111	111 151	11% 121

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* FAXONDMIC CLASSIFICATION					ALMUFA	3	CAGANI SMS	AT ST	ATIONE	(CE	CELLS/ML	<u></u>		•••
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4	•••	••••••			•••		::					•		
+ CCCCCNFIS PLACENTULA V FUGLYPTA	1	11		1	• (	••	••	1.1		• •	11	1 1	• •	11
CACLCATELA CA DATANA	2	15.0	• • •		56	91	• • •	2.5		• • •	50	9	-	~ •
	56	38	• •	67	3.1		• •	13	2	•••	24	5.0	•	2
+ CAMBILLA MERYCERUS + CAMBILLA MICHOCEPHALA			. • •	• • •	i vn	• • •	• • •	1 1	• • •	• • •		. 1	• • •	
+ CYMBELLA MINUTA	,		• •	1	ın		• •	•	••	• •	1	١	• •	. •
+ CAMPELLA TUMIDA + DILA UNE 15 SP	11	11	••	••	, ,	••	• •	ı 1	••	••	11	1 1	• •	• • ! !
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+ FRACILANIA LIPICATAURON	11	755	- • •	ָרְי מי	1 1		• •	٠,	• •	• •			٠.	• •
+ FRAGILARIA PINNATA	1		••	••	•	••	٠.	•	••	<b>+ +</b>	••	1	••	
+ FRUSTULIA RHOMBOIDES	11		• .	r	1	•	• •	1		•	1 1	• 1	• • •	
	<i>r</i> :	1 2	. •	• •	ı ın		• •	•	••	•		•	• •	
+ MFLOSISA AMPIGUA		•	• •	••	•	<u>.</u>	••	•	••	• •	••	127	••	
+ MELDSTRA DISTANS + MELDSTRA GRANULATA	3164	+ 2271 + 83	<u>-</u> • •		1979	* - - + +	• •	E 3	1001 +	• •	1714 +	2940		• •
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+ MELOSINA GRATULATA V ANGOSTISSIMA + WELOSINA VAPIANS	ς.		• •	• • • •	2	- 5	• •	ימיו	==	••	22		• •	
* NAVICULA CETPTUCEPHALA	•	~	••	• +	មា	• •	• •	7	• •	• •	• •	er.	• •	• •
+ NAVICULA EXIGUA V CAPITATA	ر ا	1 1	• •	• •	1 1	+ 4	•	• •	•	• •	• 1	' (	•	• •
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* MAVICULA SALINARIUM V INTERMEDIA			• •	• • I	•	• •	• •	ſ	••	••	• •	•	• •	••
+ MAVICULA SP + MF TO THE AFFINE V LONGICEPS	11		••	••		••	••	1 1	••	••	! !	' '	••	• •
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+ NITZCHIA HOLSATICA			•	• •	1		• •	,	, .	•		1	• •	•
+ MITZSCFIA ICNORATA	,	•	٠.	٠. د	•		• •	t	•	• •	• •	1	• •	••
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+ NITZSCHIA PALEA + NITZSCHIA PALEACEA	, ,	0 1	• •	• •	1 1	• •	• •	1 1	••	• •	11		• •	••
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+ PINNU ANIA APAUJENSIS V ROSTRATA	12	• 1	••	1 10	1 (	••	٠.	1 15	••	••	11	• •	••	••
+ PINNULARIA SP	'	•	••	••	•	n • •	٠.	ı	١	••	1	1	• •	••
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TABLE H-2a (cont.)

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	7		n				_			0
SYNEGRA ULNA  SYNEGRA ULNA  TRANSINGE MUSICA	11	11	* #1	11	11	11	11	11	11	11
EUGL FNOM4 YCE AE				•	· · · · · · · · · · · · · · · · · · ·		• • • • • • • • • • • • • • • • • • •			· · · · · · · ·
FUCLFNA SP TRACFCLUMONAS SP	11	11	l to	1 ທ	11	11	In	4.1	0¢	7 7 7 7
CILICPHORA		•			•	• • • • • • • • • • • • • • • • • • •			•	• • • • • • • • • • • • • • • • • • •
UNIO CILIOPHORA	١	ı	,	ı	1	ı	n	,	•	•
ROTIFERA									•	
UNID ROTIFER	ı	ſ	,	1	,	1		1	1	1
PROTOZOANS									•	•
WORTICELLA SP	١	,	'	1	1		1		•	
TOTAL NUMBER OF DRGANISMS NUMBER OF TAXA	4326 21	3746 32	2962	2587 22	1259	50	7.0	P 61	* °	
444-44-44-44-44-44-44-44-44-44-44-44-44			***				•••	***		• • • • • • • • • • • • • • • • • • • •

TABLE H-2b

**LAKE SEMINGLE NATER GUALITY MANAGEMENT STUDY - PHYTOPLANKTON (CELLS/ML)**
CORDS OF ENGINEERS (CCNTRACT CACMOI-78-C-0101) FHASE 1, CYCLE 2
(JUNG 5-7, 1978)

TAKCHOMIC CLASSIFICATION		NUMBER OF ORGANISMS AT STATION: (CELLS/ML)		NUMBER	NUMBER OF ORGANISMS	HS AT ST	) : voit	AT STATION: (CELLS/ML)		
	-	+ 11 + 12 + 14 +	13	•	15 + 16	16			61	61
							•		:	•
CVANNDHYCEAE	• • •							• • • •	• • • •	• • • •
	• • •									• • •
ANABAFNA SP Aphandcapsa del Icatíssima Aphandcapsa elacfista	112	3776	111	111	'' <u>=</u>	111	111	''=	111	
APHANGCAPSA PULCHRA APHANGTHECE NIDULANS CHAUGCACUS DISPFRSUS	1 1 6	23,73	100	113	136	111	100	1620	118	
CHRODEOCCUS LIMNETICUS CHHUDCCCCUS MINIMUS CHHUCCCCUS PALLIOUS	111	E =   E =	1 70 0	100	123	215	110	111	111	
MERISMOPEDIA QLANCA MERISMOPEDIA TENUSSIMA MICHOCYSTIS INCFRIA	1 4 1 0 0	2764 2764 2862	200 P 1	171	2.0 15.05 15.08	'';	121	223	232	
OSCILLATORIA SP SPIRUL INA SP	11	11	11		21	~ i	<u>.</u> 1	11	••••	
CH_OROPHYCEAE	•		•	•				• • • • •	•	• • • • •
ACTINASTRUM MANTZSCHII ANKISTRODFSMUS FALCATUS ANKISTRODFSMUS MANKUST! ENE	+ 0 U	. 1~ .	800-	521	200	<u>*</u> 4*	116	100	1'=	
ANKISTRODESMUS SPIRALIS CANTERIA SP CHARACIUM AMBIGUUM	111	116	ini	9 m i	010	1 - 1	222	•••	111	
CHLABYDDWDNAS SP CHLORELLA SP CHTORELLA CHDDATE	111	111	ν11	m   1	NII	ma i	111	111	111	
CHODATFILA SUBSALSA CLOSTFFIUM SP COCI, ASTHUM CAMPRICUM	+++	112		101	111	101	101	w   1	101	
COFLASTBUM MICHOPORUM COFLASTBUM MIRUS	178	<b>D</b> :	<b>9</b> 1	000	NI	<u>n</u> 1	۱ ۵	<b>0</b> I	132	

TABLE H-2b (cont.)

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TANGAGMIC CLASSIFICATION						NUMBER	å	HCAN	SMS	is ≥ <b>∀</b>	ORGANISMS AT STATIONS	_	(CELLS/ML	LS/N	<u></u>		
	=	•	·	Ţ	•	:	•	•	•	•	•		-	•	-	•	:
					::	<b>::</b>	::	<b>:</b> :		::	::	iii		iii		::	
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	•		1	•	••	1	• •	27	• •	٠	• •	•		•			•••••
+ CCSWARIUM SP	1 9		- ;		+ ·	v	• •	וח	• •	• (	٠.	1 "	٠.	1 1		nı	
	5	٠.		'	• •		• •	)	. •	ì	•	,	. 4 .	-		•	
+ CRUCICENIA CUADRATA	66.		**	9	••	-	• •	1 1	• •		••		••		• •		
+ DICIADSPHAFAIUM PULCHELLUM				Ď	•	2 '	• •	92	٠.	•		c	••	•	<u>-</u>	÷ •	•
	٠		^		• • •	٠	• •	•	. • •	1		•		. (		11	
+ FUASTRUM SP + GREEKIMS PAUCISPINA +	12	• •	1 62		• •	1 01	• •	• •	• •		• •		• •	•	• • •	• •	
+ 6CLENKINI & RACIATA +	•		••	Š	• •	ı	• •	27	••	•	••	۵	• •	*	••	• •	•
+ KIRCTNEHELLA LUNARIS	0.40		01	-	• •	55	٠.	22	٠.	2^	• •	۱۵	••	<b>*</b> *	••	٠ <u>-</u>	
		. + 4	• •		• •				• •	1	٠.	•	••	,	••	• • •	
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+ PANCORIZA EGDOR + DANGORIZA 50		• •	, ,	<b>∢</b> ĕ	+ + - c	95	• •	75	• •	۱ ۲	••	۱ ~	• •	. ,		• •	
+ PEDIASTRUM BIRACIATUM	•	. 4 4	1		• •	1	٠.	ŧ	٠.	ı	••	ı	٠.	,	٠.	٠٠ ١	•
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+ PECTASTRUM COPTEM + PECTASTRUM CONTUREM + PECTASTRUM CONTUREM	186	••	, ,		• •	1 1	• •	- 1	٠ +	1 1				,		2	
+ × × × × × × × × × × × × × × × × × × ×			• •	•	••	•	• •	١	• •	٠	••	•	••	,	••	• <del>•</del>	•••••
+ PFDIASTRUM TFTMAS V TETRADDON	•	•	,	•	+	•	•	1	•	١	•	•	٠	<u>.</u>	٠	•	•
PEDIASTRUM SP	eE.	٠,	,	•	••	ı	+ +	ı	٠.	•	• •	•	••	,	••	• 1	
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N M	e '	٠.	• • • •		• •	0 1	• •	1 1	• •		٠٠		• • •	ç,	• • •	==	
SCFNEDE SHUS ARMATUS	335	••	29	n	+ + m	30	• •	6	• •	~	• •	•	• • •	281	=	9	•
+ SCENEDESMUS APMATUS V BICAUDATA + SCENEDESMUS BIJUGA +	1 38		84. 44.	— ₹.	+ + ·	- v	<b>* *</b> ·	. ~	• • •	nı	• • •	- c	• • •	D 1	•••	• • • • -	
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◆ SCENFOR SMLS GUADHICAUDA ◆ SCHRUECERIA SETICE∪A	161	• •	F 1	•	+ + o-un	ר בי בי בי בי בי בי בי בי בי בי בי בי בי	• •	9 1	• •	- '	• •	D 4	۷ • • •	<b>.</b> ,		• • • • •	
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+ Standastrous SP + TE LAEISHON CAUDATUM	. 1		20		• •	1 (%)	• •	m ~	• •	1 1	• •	1.4	٠.	ຫ <u></u>	• •		
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TABLE H-2b (cont.)

TANGACHIC CLASSIFICATICH				NUMBER OF	DF DRGANISMS	SMS AT S	AT STATION: (CELLS/ML)	CELLS/MI	$\widehat{}$	
***	=	1.2	. 13	•		•		•	<b>:</b>	
		• • • • • • • • • • • • • • • • • • •	•••	• • • • • • • • • • • • • • • • • •	***************************************					• • • • • • • • • • • • • • • • • • • •
UNID CRYPTOMONACACEAE	1	1	- F	92	35		1	1	1	
*********	•			•	•					
DINOPHYCEAE	• • • • •			• • • • •	• • • • •		••••	• • • •		
PERIODNING SP. 4	100	<b>4</b> 6	į m	1 Wi	1 • • • • •	16	10	j vi	1 m	
XANTHOPHYCFAE	•									
ARACHMOCH. DRIS SP CENTII PACTUS HELANDHOFUS OPHIOCYTICH CAPITATUM DPHIDCYTLUM CAPITATUM V LONGISPINUM	51 1 01	1 P. 1 · 4	111 1	Q:1 1	<u> </u>	811 N	111 1	#11 1	<u>.</u>	
CHRYSOPHYCERE				•	•	•				•
DINDBYRON CAMPANULOSTIBITATUM  OINGRYON DIVERSENS	11	g.=	11	21	11	,,,,,,,	11	11	11	
BACILLARIOPHYTA (DIATOMS)		•		• • • •		•				
ACHWANTHES CLEVE! ACHWANTHES LAVECLATA V DUBIA ACHMANTHES LAMECLATA V DUBIA AMPHOGRA PERPUSSILLA ASTERIUMILLA PURMOSA COCCONFIS PLACFATILA	101 111	151 111	iem iii	1 200 111		NG1 21G	NNC 111	101 101	101 151	

TABLE H-2b (cont.)

	•	:	•	:	•	••••••	•	:		:							
TAXONOMIC CLASSIFICATION						NUMBER	ö	DRGANI SMS		AT ST	STATIONS		CELI	(CELLS/ML	~		
	=	•	2	2	•	•	•	5	٠	•	_		-	•	:	•	:
					::	***				***		::					
CHECKETS PLACENTULA V EUGLYPTA	,			:		-		•		٠				•		:	:
CYCLUTFILA CATFNATA	• ;	•	1		+		+	~ !	•			i		• •	· :		
• CYCLCTICL A GLOWERATA	•	٠.	,	<b>-</b>	• •	~	٠.	2	٠.			,	• •	• •	-		
+ CYCLOTELLA STELL IGERA	8.9	•	72	Ñ.	*	55	•	17		m		'n	٠	•	=	:	:
CAMMELLA LEPTOCEROS	1	•	•		+ 1	S :	•	,	•	1		•	•	•	1		• •
• CAMBILLA MICKOLEPHALA	I	٠.	22		• •	27	• •	,	٠.	,		•		• •	ľ	• •	
	10	. •	•		+	•		•	•	1		i		•	•	•	•
+ CYMUSELLA TUMIDA	• (	••	1 1		• •	10	٠.	10	••	11		ا ت		11	• •	• •	
	)	• •	,		•	•	• •	i	•	•				•		٠	
+ EUNDITA TENELLA	•	•	1		٠.		• .	i	٠.	10		1 6	• •	• •	•	: :	
+ FDAGILARIA CONSTRUENS		• •			• •	2 6	٠.	, ,	٠.	v 1		r su	• •	•		•	:
			•		••		•		•	1				• •	,		
* FRAGILARIA CHUTCRENSIS * FRAGILARIA L'EPTOSTAURDE		٠.	22		• •	1 0	• •	1	• •	1 1				• •	•	:	:
FRACILARIA PINNATA	•	•	1		• •	137	٠.	~		1		,	• •	••	•	:.	•
	,	٠.	1		•	•	٠.	į	• •	1		,		,	•	•	::::
FRUSTULIA VULGARIS	1	•	1		• •	1 4	• •	5	• •	1 "		1 9	• •	• •	• •	: :	
COMPRUNEMA PARVILON	<u>-</u>	٠.	1		• •	n	٠.	•	٠.	,		L		•			
WELDSIFIA ANDIGUA	202		15	2		1 :	• •	23		1 2		, •	•	***	1001	::	::
MILOSIFA GEANULATA	รู้เรา	• •	<b>)</b> 1	, m	, m	e er	٠.	~	• •	1 6		ı				•	
+ #FLOSIEA GOALIAATA V ANGUSTISSIMA	9	++	,		• • 	•	++	20	• •	1		ח	• •	82 +	2	• •	:
MELOSTEA VARIANS	: 1		1		n	~ 1		en i	٠٠	a (		m	• •	•	• 1	::	
* NAVICOLA CPTFICIEPTALA		٠.	ņ		• •	п	٠.	ı	• •	1		,	• •	• •	,	•	
NAVICULA EXICUA Y CAPITATA	•	•	1.		+ •	1	•	<b>m</b>	••	11		•	••	, ,	<b>10</b> (	• •	
+ NAVICULA CHECANTA		• •	<b>*</b> 1		. +	i in	• •	1 1	• •	به ا		•	•	•	•	•	•
+ * * * * * * * * * * * * * * * * * * *	,	• •	,		• •	١	٠.	1	٠.	1		٥	••	• •	•	• •	•
NAVICULA SP	1	• •	•		•	n	•	•	•	۵		. ~		,	6	•	:
+ NEIDIUM AFFINE V LONGICEPS	•	٠.	1		••	•	٠.	ı	٠.	1		٥	••	• • !	•	:.	•
	ôĐ.	•	^	. 4	•	•	• •	N		a		n		•	Ξ	•	:
NITZSCHIA HOLSATICA	1 1	٠.	11		••	۱,	٠.	12	٠.	11		1 1	••	,,	• •		
		• •			•		•		. •	•				•		•	:
NITZSCHIA	2:	• •	1 1		• •	• •	• •	, ,	• •	11		1 0	٠.			::	
+ NITZSCHIA PALEACEA	2 '				•	•	•	N	٠.	1	. 4	c.	. •	,	•	:	:
• MITZ ACHI A SIMILATA W TANFILARIA	,	••	,		• •	•	• •	1		1		,	٠.	,	•	• •	:
NITZSCHI - THERMALIS		•			+	1 1	•	•	•	11		1 1	. •	1	+		
	<u> </u>	٠.	•		• •	r	• •	7	• •	v		י	٠.	• •	•	• •	
PINNUL ARIA ABAUJENSIS	1	•	1		•	1	•	1	•	,		1		•	•	•	•
+ PINNULARIA SUECAPITATA +	1 1	- +	1 1		••	' '	• •	1 1		11			. +	• •	• •	:	:
		• •			• •	•	• •	1	• •			,	٠.	• •	•		
* SYNCORA CAPITAIN	۱,	٠.			•	2	• •	7	•				. •		•		
SANFONA RUPEINS	•	•	•		•	~	+	æ	•	1	_		٠	•	•	•	

TABLE H-2b (cont.)

TANDMORIC CLASSIFICATION	•••			NUMBER	NUMBER OF ORGANISMS AT STATION:	SHS AT ST	) :NOIL	(CELLS/ML)	<u>.</u>	
			61	:	. 13	•		•	•	
	••••	::			**************************************				•••	•••
STRECHA ULNA IFHPSINDE MUSICA	11	11	11	11	W I	N 1	N N	11		
EUG EMOPHYCEAE										
FUGLENA SP Thachelougnas SP	11	•	m i	NN	ne	2.0.	IN	110	Ø 1	
CILIGRORA									•	•
UNID CILIOPHORA	2	9	<b>:</b>	N	m	'	<b>a</b>	<u>.</u>	2	
ROTIFERA										
UNIO ROTIFER	,	1	so.	1	,	1	'	ø		
PROTOZOANS	•	•		•			•	•		
WORTICELLA SP		,	•	,	,	,	,	1		
TOTAL NUMBER OF ORGANISMS	9195	15377	230¢	172	2232	,	9 9	6 M	6	

**LAKE SEMINILE WATER OUALITY MANAGEMENT STUDY - PHYTOPLANKTON (CELLS/ML) **
CORPS OF ENGINEERS (CONTRACT DACWOI-74-C-01011) PHASE 1. CYCLE 3
(JUTY 17-20, 1978)

TAKCHOMIC CLASSIFICATION	NIMBER OF OPCANISHS AT STATION: (CELLS/ML)			NUMBER	CF CPGANI	NUMBER OF PRANISMS AT STATION:		(CELLS/ML	Ę	
••••••	- !	. 2 .	•		•			•	*****	0
	* * * * * * .	•	• • •		•	•	•	•		•
ANAPAENA SP ANAPAENDSS SP APPANZJENON FLOS-AQUAE	11 5	1100	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;		1197	7 T T T T T T T T T T T T T T T T T T T	1 1 K	1 i m		50''
APMANUCAPSA DELICATISSIMA Apmanucapsa elachista Apmanucafsa pulchqa	167	274.2		1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	1015	213	601 845	101 107	2140 577	2136
APMANDTHECE NIDULANS CHEDUCOCCUS DISPERSUS CHECOCCCCUS LIMMETICUS	101	121	191	101 m	'='	132	270	1 4 1	1022	327
CHROOCACCUS WINIMUS CHROOCACCUS PALLIBUS LYNGAYA CONTOKTA	335	11928	111	923	112	115	2 2 2	74.5		1209
LVAGBVA SP MERISWCPEDIA PUNCTATA Meriswopedia Temuissima	111	1 1 0	1100 4	114	1100	÷+++	9	115	1307	106311
MICECCYSTIS INCEPTA OSCILLATOSIA LIMNETICA OSCILLATORIA SP	1 1 904	352	485 139	1940	325	#50 # 2.45	2632 + 2632 + 471	3435	1425	450 400 400 400 400 400 400 400 400 400
SPITULINA LAXA	* E	537	233	. <b>6</b>	25 25 2	5	172	ž	00t • • •	207
CM_JRDPHYCEAE	• • • • • • • • • • • • • • • • • • •	•	• • • • •	• • • • • • • • • • • • • • • • • • •	• • • • •	•	•	• • • • •	•	•
ANKISTPODESMUS FALCATUS ANKISTRODESMUS NAMMOSFLENE ANKISTPOLESMIS SPINALIS	10 00 00 00 00 00 00 00 00 00 00 00 00 0	21 21 107	<u>_</u> 12		523	 	= ° = °	<u>e</u> 1 ¢.		% n 0 % n 0 % n 0
CARTEDIA SP CHLAbyddwjhas SP Chllefila 'P	111	111	111	••••		161	121		1 0 1	161
CMCEATELLA CMIDAT! CMMGATELLA SUISALSA CMMGATELLA MATISLAWIENSIS	101		121	111	111		101	161	1 % 1	••••

TAKENCHIC CLASSIFICATICH	•	•	•	NUNGER	NUMBER OF ORGANISES AT	SHS AT ST	STATION: (	(CELLS/ML)	:	•
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::										*******
+ CLCSTERION SP	2	1	,	1 !		in .	c	,	-15	•
			, ,	÷ 1	171	11	1 1			
+ COELASTRUM PROGRESCIDEUM	1.57	1	,	=	,	,	,	¢	••	
+ Cristastum romapolicum + Cristastum Toliculatum	••		149	11			11	• •	••	••
0. 312 23 200			4		<u></u>	,	=		-	
	1	ī	1	7.	1		::			្ត
CHUCICEMIA CUADRATA		,	,	•			,		,	
CBUCICENIA TETRAPENIA	1 2	•	1	١;	60	1	1;	' ;	,	1
+ CYANTERNOCOCOUS VARIABLES	007			3'	<u> </u>	11			• •	11
	· ·	72	2		91	· ·	2	,		,
+ TUASTRUM SP	15		1	1	1	1	•		1	•
	2	=	E .	•	2	0	c	^	60	=
GON LOW DICTERALE	1 .	1	1	1	1	•	157	,		,
+ AIDOTALISIA COMPANS	57	4 2	<u> </u>	2		71	<u>.</u>	2	F	£ .
65 % 5 5 5 6 5	•					•			•	
	6	= '	11	, ,	E 1		, ,	, I		
	1	1	1	174	1	er.	•	-	16.	,
	,	7	0.	131	35	1	ĩ	,	,	132
+ PSDIASTRUM DUPLTA + PSDIASTRUM CUPLER V CLATHGATUM	11	11	11		11	11	1 2	g 1		••
A DECTACOUNT OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O	•				,					
PEDINSTRUK SIMPLEX	11	1 1	» i	11	71		, ,	11		<u>.</u>
+ FECTASTOUN TETUAS V TETRADEON		1	1	•	1	1	£	•	1	1
	1	,	1	•	1	'	1	1	,	=
SCENEUR SAUNDANS     SCENEUR SAUNDANS     SCENEUR SAUN SAUNTANTUS	12 .	٠ د ۱	, ,	1 4	- C	12	-1	19	E E C	5
								,		
+ SCENEDE SMUS ATTATUS + SCENEDE SMUS ATTATUS V DICAUDATA	+ 501 +	200	502	251		• • • • • • • • • • • • • • • • • • •		700	( 11 )	354
:	-	121	5	:	127	. 1	-	100	ė	2
SCENEDESMIS	125	F *	112	4	25	2 E	Ç	•	:	ŕ
SOURCE SAUS CONTROL OF SOURCE     SOURCE SAUS SE	51.	ๆ ภ อะ	* 4.5	70	100		:::	07		400
	•									,

TABLE H-3a (cont.)

PANGNOMIC CLASSIFICATION		•	,	ACMUER CF	CF ORGANI	ORGANISMS AT STATION:		(CELLS/ML)	, , ⊊	•
			7						,	2
SELAASSTRUM MINUTUM STAURASTRUM SP FFIRECLIN CAUDATUM	' n'	17.	111		121	120	121	255	13 + 27 + 24 + 12 + 12 + 12 + 12 + 12 + 12 + 12	15-
TETRAEDROW WINIWUM TETRAEDROW WILLOW TETRAEDROW WETCOM	111	<u> </u>	E 1 1	ทูเเ	111	111	011		<u> </u>	÷11
* TETRAEDECK TRIGGNUM ** FFFASTOUM ILEGANS ** TFTASTHUM PETERDCANTHUM	111	111	111	116	111	i	F I I	# 1 # ****	g. 1 1	2
IFTEASTRUM STAUFORME	1	7	,	•	,	1	35	•	<u>.</u>	
CAYPTOBHYCEAF										
	111	111	111	112	f f 1	111	111	• • • • • •		111
DIND DATCEAE				•	•	•	•	•	•	•
GLENDOCATUM QUADPIDENS GLENDOCATUM GOADPIDENS LEALUNICA GO	111	115	110	11=	1 1 55	111	115	110	110	115
XALITHODH VCF AE	•	•	•	•			•	•	•	•
ALACHNOCHLEPS SP PHIDCYTIJM CAPITATUM	11	11	01	11	11	1.1	11		<b>4</b> 1	% 1
**************************************	*******	*******	• • • • • • • • • • • • • • • • • • • •	*******	******		************	• • • • • • • • • • • • • • • • • • • •	•••••••	•

TABLE H-3a (cont.)

TANDADMIC CLASSIFICA	•	•	• • • •	ALMUER CF	CF DHCANISMS		STA110N: (	(CELLS/ML	(_)	•
• • •	-	~	r	•	'n	٠		•	•	0.
CHAYSOCOCUU	≅'	1 1	11		11	; 1	<u>-</u> 1			11
•			• •	•	• •			• •		
•										
ACMMANTMES LANCEDLATA V DUBIA     AMONEGA BUNALS     ASTERITYELLA F DAMOSA	111	111	010	115	116	in i f	C 1 I	<b>   </b>	g ' 5	=''
COSCINCUISCUS SP CYCLUTFLLA CATHATA CYCLUTFLLA CATHATA	111	111	111	114	112	111	,,,	111	111	111
CVCLUTELLA WENEGHINIANA CVCLCTELLA «TILLIGENA CVWHELLA MIGGOLPHALA	1 🐉 1	1 9 1	121	1 1 1	131	1 4 1	151	1 % 1	161	1 # 1
CVMHELLA MINUTA CVMHELLA SP • EUNCTIA SP	111	111	101	111	111	111		111		111
F F F F F F F F F F F F F F F F F F F	101	100	106	160	'ES'	16.1	230	701	۱۳۱	121
FRAGILANIA PINNATA CCPPHTIEMA DATEULOM * MLCSIEA AMFILUA	''5	111	115	111	187	122		115	112	115
WELCSTER CESTRAS WELCSTER GERVOLATA WELCSTER GERVOLATA	27.2	245	22. 41.	120	277	200	44 44 4	W 1 1	782	505
* MELGSILA VAGIANS  * NAVICHIA CEVETTCEPHALA  * NAVICULA EXIGUA V CADITATA	111	=''	111	1=1	121	, , ,		611	115	111
NAVICULA GASTIUM     NAVICULA PUBLIA     NAVICULA PUBLIA     NAVICULA PUBLIA V PECTANGULAPIS	111	111	111	111	111	111	111	111	111	

TABLE H-3a (cont.)

FARCHCHIC CLASSIFICATION					ACROER	CF CRGANI	NUMBER OF CRGANISMS AT STATION:	*******	(CELLS/ML)	₹ )	
	-	2	•	_	•	n •	•		¢	•	•
						***			•		
NITSCHIA ACTOULANTS NITSCHIA HOLANTICA NITSCHIA HOLANTICA	136	211	•••	2011	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	<u> </u>	207	011	<u> </u>	( ) ) ( ) )	F
NITZSCHIA PALEA NITZSCHIA FALEACEA NITZSCHIA EP	510	5':	• • • •	151	115		115	114	112	111	112
SURIBELLA SO SVNELGA DELICATISSINA SVNECHA RUMPITYS	121	1791	••••	15,1	141	171	121	181	151	131	101
SYNEGGA ULNA	 	=	• • • •	•	=	<u> </u>	1	ç	1	2	<u></u>
EUGLENDPWYCLAE	•	: : : :	•		•	• • • • • •	•	•		•	• • • • •
EUGLENA SP PHACLS SP TRACPELOWJNAS SP	117	117	*****	119	112	110	115	118	115	11%	1 - 4
CILICPADRA	•	•	•••••		•			•	•		•
UNID CILIDPHOPA				1	Ξ	1	*	ξ.	1	2	g 
######################################			<b>:</b> · · · · ·			•	•	•	•	•	• • • •
UNIC RO'IFED				1	ı			1	*	2	
TOTAL NUMBER OF ORGANISMS	10539	10067	2	7056	10319	# 9 6 4 # 9 6 4	4 10 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0.70		12042	12335
• • • • • • • • • • • • • • • • • • • •	••	•	•	•			•		•	•	

TABLE H-3b

1

(CELLS/ML). 

. . . . . NUMBER OF URGANISMS AT STATIONS (CELLS/ML) • 10 • 17 CHARS OF PRINCEES CONTRACT DATAOL -78-C-01013 PHASE 1. CYCLE 1
(July 17-20, 1978) • 14 • 15 11 + 12 + 13 TAKENOMIC CLASSIFICATION CYANIDHYCE AF

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112 55

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***	AVAILE SP. ST. ST. ST. ST. ST. ST. ST. ST. ST. ST	()	6.3	11	11	11	11	
ğ • •	**************************************	1	,	,	'	•	'	٠.
	APPRANTENCE DEL TEATISSIMA + APPRANTENCE APPRANTENCE APPRANTENCE DE POLICHA + APPRANTE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APPRANTENCE APP	25	111	E C -	111	126	111	
4.55	CHEUNCHCCE NIOULANS CHEUNCHCCUS NISHESUS CHEROCOCCUS LIANETICUS	111	1 (1)	250 707 119	130	2794 51	151	
137	CHECHOCOS MINIMUS CHECECHOS PALLIDUS LYNGHYA CHICKTA	4 7 2	111	m62	\$11	111	111	
12 H	LYNGEYA SO MFD [SWORS] A PUNCTATA MFD [SWORS] A TSWUISS IMA	3766	<u></u>	05 14 4 14 77 15	111	1046	117	
0.00	MICEOCYSTIS INCERTA 05CILLATURIA LIMMETICA CSCILLATCHIA SP	1743	1 65 S	4 7 3 0	i gʻi	57.5 7.17 7.17	ec i	• • • •
9	SPIFULINA LAXA	=	1	•	1	τ	٤	• • • •
: :	CHLOROPAYCLAE						•	• • • • • •
444	ANKISTRODESMUS FALCATUS ANKISTRODESMUS NANNOS-LENE ANKISTRODESMUS COTFALIS	138	NII	181	Od fi Md N	#18:	16.6	
355 5		'=' '	111 1	161 1	151 1	lyi i	446 6	
	CHODATFILA SIMISALSA CHOCATELLA WRATISLAWIENSIS	11	11	25	11	18	111	• •

TABLE H-3b (cont.)

TANDADHIC CLASSIFICATION	••••				3		F ORGA	VI SAS	AT ST	NUMBER OF ORGANISMS AT STATION:	(CELLS/ML	.rs/	<u></u>		
	=	- 12	•	2		:	5		•		٠	•			
	***		•								٠			•	
CUEL ASTROYA	•	• •	+ + ~ ~	15	٠.	• •	T I	٠.	્ય વ	11	• •	<b>4</b> ا			
	• •	•	• •	5+5	• •	•	•	•		'	•	ı	•	•	••••••
COELASTHUM FR MCSCIDEUM	=			1	٠.	٠.	1	٠.	,		• •	1		:	•
CONMENSOR SOLATORONAL CONTRACTOR SOLATOR	••	••	••	1 1	••	. 1	•	• •	• 1	11	• •	1			
CUSMAGIUM SO			•		• •	•	· ;	•		•	• •	1	•	• •	
COUCTGENTA APTCULATA	17.	<u>-                                    </u>	• •	26.5	٠.	- •	Ξ'	٠.	i e	<del>-</del> '	••	<u>-</u> '	?; <del>-</del>	• •	••••••
CHUCIGINIA CUADRATA	•	. 1	•	214	•	-	•	•			•	١		•	
COUCIGENIA TETRAPEDIA	,	••	• •	ı	• •	+ +	1	٠.	,	۱	••	1	• •	:	
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- ••••••	116	1 ~ 5	,,,	1 1 50	715	-17	112	141	
••••••	12.7	141	**** **=	75.	151		' <u>=</u> '	1 1 1	
* * * * *	111	111	# 1 P	111					
••	111	111	***	111	111	mıı	101		
GENERAL PARVULUM + - + - + FELOSIMA AVPILION + 152 +	191	22 - 1	* * * * * * 1 1	<u>ē</u> ''		mm;	21 4	116	
MELOSIRA CICTANS + 272 + 272 + 48.LOSILA GRANULATA + 557 + 6 557 + 8.ELOSILA GRANULATA V ANGUSTISSIMA + 77 +	111	1.54 1.54 1.55	ئار. د د د د	28.2	<b>5</b> 11	<b>C</b>   1	****		
MELOSIBA VAGIANS NAVIGULA CEPTTOFEBHALA NAVIGULA EXIGUA V CADITATA 11 +	191	115	# <b>* * *</b>	111	1 N I	<u></u>		1 1 1	••••
NAVITULA GASTOUM NAVITULA PLINULA NAVITULA PUTULA V PECTANGULASIS	111	111	***** 	151	171	••••	••••	111	

TABLE H-3b (cont.)

TANDADEIC CLASSIFICATION	•	•	:	•	NCMBER	NUMBER OF DEMANDERS AT STATION: (CELLS/ML)	SES AT S	TA110%!	(CELLS/ML)	() F()		
	=		• :	. 61	:	51	9		• •1	•	0.1	000000 0 01
**************************************	**************************************	11		27	<b>1</b>			· -		<u>.</u> .	£,1	7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
* NETECHIA RUTZINGIANA	=	1	••	<u>.</u>	٦		۳.		•••		•	••••••
+ NITZSCHIA PALTA - NITZSCHIA PALTA - NITZSCHIA PALTACE		1001	•••	116	m m ir	121	#1 <u>\$</u>		•••	110	114	****
	152	1.0	• • • •	37.	m)	i 1	•••			• • • •	14	# 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	5 2 1	• • • •	• • • •		- =		· · · ·	· · . · ·		· · · · ·	1 3	
EPUL FNORMY CEAS	•	•	·····	:	• • • •	•		•	•	:	•	•
FUGLENA SP PHACLS SO + THACHELLMONAS SP	*==	1 (4)	*****	144	401	121	† ra 1	111			112	* • • • • • • • • • • • • • • • • • • •
CILICHORA	•	•	•••••	•		•	•	•	•	•••••	•	•
UNIU CILIUPPOBA		<u></u>		ŭ	Ξ	<u>-</u>	•			• • • • • • • • • • • • • • • • • • •	2	
0011FEBA	•	•		•	•	•		•	•	•	•	•
UNIC EOTIFER	,		:	<b>* * * * *</b> .	ı	• • • • •					•	
TOTAL MUMPER OF ORGANISMS : 31240 MUMBER OF TAXA 69	312	106	:	15419	5031	16032	<b>3</b>	, , , , , , , , , , , , , , , , , , ,	- - -	• • • • • • • • •		
	•••				***							

TABLE H-4a

**LAKE SFUINDLE WATER QUALITY MANAGEMENT STUDY - PHYTOPLANKTON (GELLS/ML) **
CORPS OF FNGINFERS (CONTHACT CACWOI-78-C-0101) PHASE 1. CYCLE *

(August 14-17, 1978)

2770 1631 1884 953 2690 3 NUPBER OF BREAKISMS AT STATION: (CELLS/ML) 185 1634 1 307 1117 • 1195 5716 336 2578 168 1420 317 ****************************** TARONDHIC CLASSIFICATION APMANIZOMENON FLOS-AQUAE Aphanucapsa delicatissima Aphanucapsa elachista CHLORCPHY CE AE ACTINASTRUM MANTZSCHII ANKISTRODESMUS FALCATUS ANKISTWODESMUS SPIRALIS ANABAENA SP ANABAENDPSIS CYLINORICA ANABAENDPSIS SP MERISMOPEDIA TENUISSIMA MICHOCYSTIS INCENTA OSCILLATCHIA LIMMETICA CY ANDPHY CE AE CHROOCOCCUS LIMMFTICUS CHROCCCCCUS MINIMUS CHROCCOCCUS MINUTUS CARTERIA SP CMLAYYOGMCHAS SP CHLDROGONIUM ELONGATUM APMANCCAPSA PULCHRA APMANOTMECE NIDULANS CMRNOCOCCUS DISPERSUS LYNGRYA CCNTORTA Lyngrya SP Merismopedia punctata CSCILLATCHIA SP SPIRULINA LAXA SPIRULINA HAJOR

TANDMOIC CLASSIFICATION				4	ALMUER CF	F ORCANISMS	7	5747101:	CELLS/ML	()	
• • •	-	~	n •	•	•	ø	•		•	•	2
		•••	***	::	•						
CHINDATELLA CHODATE	1	1	•	•	1 !		1	•	1	•	1
+ CLOSSFRIUM SP		• •	•	••	· ·	• •	••	• •	D 1	١,	••
• COTLASTHUM MICROPORUM		•••	•	••	1	•	••		1	••	••
COFLASTRUM MURUS     COFLASTRUM DUDOFCTOFUM	139		**	•	1	246		•	1		
		•	•	• •	•	1	• •			•	• •
+ COSTABRIUM FALCRECATOR  + COSMARIUM SV  + CRUCICENIA APECULATA	200	196	- 5 5	•••	125	158	121	191	1986	1 <u>6</u> 1	186
• CRUCICENIA QUADRATA	11	••	••	••	1	1	1	••		•	•• ••
+ OTC TVO SPHAFFIUM PULCHELLUM	5 t	187	+	• •	151	919	1 961	183	199	190	••
DYSMCAPHOCOCCUS VARIABILIS	١	,	••	• •	,	,	10		•	••	· ·
+ EUSTRIM SP + GULENKINIA PAUCISPINA	11	••	••	••	11	53	31	11		11	21
+ GOLENK INTA RADIATA	1	37	- -	••		5	••	•	••	37	
+ GINIUM PECTORALE + RINCFMFRIELLA LUNARIS	6		182	++	1 %	186	163	124	122	1 2	- 3 - 2
-	1		•••	+ <b>+</b> ·		1	1	1		•••	1
+ 00CYETTS SP - 03:4103 VEREGANS	32	34	• •	• •	12	1 😭	• •	1 H 1 H	' <b>\$</b>		· · · · · ·
PANDORINA MORUM	,	,	••	• •	,	1	••		• •	75	1
+ PANDCRINA SP + PEDIASTRUM BIRADIATUM	11		••	• •	11	11	••	11	••	500	12
PFOLASTRUM CAUPLEX		131	• • •	• • •	1	1	÷÷	• • •	••		1
Profits and Dotter     Profits and Dotter	<u> </u>	166	• • •	• • •	35	200	- 1	121			+ 252 +
PRIVEDBLODSIS SPINALOSA	11	1 1	• • •	• • •	•	1 1	• • •		• • •	• • •	1;
SCENEDESHUS ABUNDANS	105		· ~	• • •	501	23	ı I	5	22	<u>-</u> '	• • • • • • • • • • • • • • • • • • • •
+ SCENEDESAUS ACCULINATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCATUS  * SCENEDESAUS ACCA	124	= 1	227	•••	10	2'3	11;	123	1 01	1 01	200
BI AUGA	;		•••	• • •		<b>y</b> 1		' ;	•		66
+ SCENTUF SWUS DENTITUR ATUS • SCENE DE SWUS QUADRICAUDA	523	112	273		2 4 5	1 3	22.0		97	25.2	220
• SCENEDESMUS SP	1	••	136	••	35	23	••	••			
+ SCHACFISERIA SETICERA + SELAMASIKUF BINUTUM	11	••	2	• •	1 50	• •	<u>.</u> '		••		, 66
+ SPONCYLOSIUM PLANUM	1	••	••	••	•	1	••	,	,	,	••
+ STAUGASTRUM SP + TETRAEDFON CAUDATUM	S I	6 I	9 <u>.</u>	•••	6	<b>3</b> '	• •	2 ¹	= 1	717	••
TETMAFORON MINIMUM	<u>.</u> .	<u>0</u> 1	~ .	• • •	<b>S</b>	ţ:	21	<u></u>	1 0	20	· · · ·
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TABLE H-4a (cont.)

	•••	•••	•••		•••	•••••	•••	•••	•••	•••
TANGMOMIC CLASSIFICATION	••••			NLBUER CF	CF ORGAN!	ORGANISMS AT STATION:		(CELLS/ML)	()	
	-	~	n	•	n	•		•	•	2
TETRASTRUM ELGANS TETRASTRUM IN TROCKING	6 6 1 1	111		101	151	1 10	1 5 6	1 1 0	9 1 5	1 1 0
TREUDARIA SETIGERUM	1	,,,,			ŗ	ę.	5	1	9	1
CKVPTOPIN CEAE	•		•					•		
• CRYPTOMONAS ERDSA • CRYPTCHONAS SP • UNIO CHYPTOMONADACEAE	111	111	111	115	111	111	ស៊ីរៈ	111	, , ,	# 1 1 m
D 1MOPHYCE AE										
CTANCOLOM SP CTANCOLOM SP CTANCOLOM SP PERIOINIUM SP	111	111	111	112	111	111	112	111	212	Ø Ø I
KANT HOPHY CEAE										
	111	111	I I M	111	111	111	<u>សិក</u> រ	111	<u>6</u> 11	<b>9</b> 1 1
CHRY SOBITY CEAE										••••
+ CHRYSTON SP + CHRYSTON VARIANS	11	11	21	<u>-</u> 1	11	<u>e</u> 1	11	150	11	0 m
+++++++++++++++++++++++++++++++++++++++	• • • • • • • • • • • • • • • • • • • •	*******	********	*******	*******	******	******	******	••••••	••••••

TABLE H-4a (cont.)

**************************************	:	•	•	NCWUER O	CF CAGANISMS	: ;	STATION: (	(CELLS/ML)	<u></u>	• • • • •
	_	N	n	•	'n	۰	•	er •	•	2
BACILLARIOPHYTA (DIATOMS)										
A CHMANTHES LANCECLATA A CHMANTHES LANCECLATA A ANTHURA OVALIS A AMPHOLIA OVALIS V AFFINIS A MANTICKA DERBUSSILLA	111 11	111 11	111 11	111 11	111 11	111-11	111 11	101 11		
	1 111	1 111	1 (6)	1 115		1 1 1 1				1 101 1
CVCCCTTELA CLORERIA CVCCTTELA CLORERIA CVWDELLA FFFOCEHOS CVMBELLA MCROTE EPHALA CVMBELLA MCMOTA	151 111	111 111	= 111	121 111	· • · · · · · · · · · · · · · · · · · ·	្តេ	191 111	001 111	121 111	
FRACIL ANIA CCNSTRUENS FRACIL ANIA CCNSTRUENS FRACIL ANIA CCNSTRUENS FRACIL ANIA LE PTCSTAURON FRACIL ANIA LE PTCSTAURON GOPPIOPERA PARVULUR	115 111		( I M   1   1   1   1   1   1   1   1   1	115 111	lim ill	IIM III	11% 111	111 111		. 1 % 1 1 1
+ CYPOSICMA ACUMINATUM  ***********************************	33301	2 2 2 3 3 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	95 3 23 3	117 911	80 4 10 4 4 1 1	''\$ ;	3 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 13 1394 126	110 =11	23 456
* MAVICULA CENFERANCEA  * MAVICULA CATTOCFPALA  * MAVICULA EXIGUA V CAPITATA  * NAVICULA FARCTA  * NAVICULA GASTRUM  * NAVICULA PUDULA	111 115	111 111	111 111	111 111	1701 111	1:1 119	111 111	111 111		
MANTCULA SCUTELLOIDES MANICULA SP MIZSCHIA ACICULARIS MIZSCHIA HOLSATICA MIZSCHIA HOLSATICA MIZSCHIA KUIZINGANA MIZSCHIA KUIZINGANA	112 212	112 210	111 611	118 811	111 211	112 915	116 151	110 011	7 2 2 1 1	110 110

TABLE H-4a (cont.)

		•••	•••	•••	**	**************************************			•••	• • • • • • • • • • • • • • • • • • • •
FANGWER CLASSIFICATION	- -	~	r	ALMUER .	CF DRGANI	NLMUER CF DRGANISMS AT STATION: (UELLS/ML)	J) : NOILI	ELLS/ML	•	9
	•									
	<b>•</b>	166	111		• ' '	111	100	111	119	101
• NITSCHIA PARVULA • NITSCHIA SIGMA • MITSCHIA TRYGLIGMELLA V VICTORIAE	1   1	181	111	<u>-</u> 11	111	111	111	111	111	111
NITSCHIA SP SURINFLLA SP SVAEGNA DELICATISSIMA	112	7.5	5'5	212	113	112	តិ ខេ	111	111	118
SYNEDRA RUMPENS SYNEGRA ULNA THPSINDE NUSICA	121	111	111	151	181	111	111	111	111	111
EU G. ENDP WYCE AE	•		•			•				
BUG ENA SP PHACUS GRBICULARIS PHACUS SP	111	111	111	111	111	111	151	919	212	(11
	1	1	1		1	F,	1	=	m	p n
CILIGMORA			•					•		
JNID CILIOPHORA		61	83	35		9	<u></u>	Ŷñ	1	1
TOTAL NUMBER OF ORGANISMS NUMBER OF TAXA	17863 10	17742	21217	[2773	21.064	14654	17156	14262	17653	22680
**************************************		•••••••••••••••••	•••		•	· · · · · · · · · · · · · · · · · · ·	***			

TABLE H-4b

**LAKE SEHINGLE BATER OUALITY MANAGEMENT STUDY - PHYTOPLANKTON (CELLS/M.)**
CURPS OF ENGINFERS (CONTRACT DACWOI-78-C-0101) PHASE 1. CYCLE 4
(August 14-17, 1978)

TAXMUMIC CLASSIFICATION	•••	::	•••	• • • • • • • • • • • • • • • • • • • •	2	######################################	NUBER OF ORGANISMS AT STATION: (FI S/M	SAS	41 STA	10N:	CEI I	¥/5			
	=	-	+ 21	2	•	:	<u>.</u>	•	•	-	•		•	•	•
	***		***	***			***								
			•			•		•			• •			••	••
CY ANDPHY CE AE			• • •			• • •		• • •	•••		•••	•		••	••
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•	•	••	• •		• •	• •		• •	• •		• •			• •	••
ANABAETA SP		-	120 +	•	• •	+ 4	1 1	• •	1 1	•	• •	1 1	• •		•
ANABARNOPSIS SP     ANABARNOPSIS SP	318	• •	• •	• •	• •	1 1	• •	• •	32	•	• • •	192			
+ APKANI ZOMENON FLOS-AGUAE	2532	••	••	٠	••	••	•	••	,	•	<b>. •</b>	784			••
APHANDCAPSA DELICATISSIMA     APHANDCAPSA FLACHISTA	1019	-	108	2615	• •	••	1 1	• •	11	• •	<b>.</b> .	<b>1</b> 04	713	• • • • • • • • • • • • • • • • • • • •	::
		•	•		••	•	,	• •		,	• •	1	. 1	*	•
+ APHANCIATOR NOCLANS	1137	• •	11	, 1				• •	Š	•	• •		1 1	٠	
	165	•	•	139	•	•	•	• •	*	•	• •	0	5	•	:
	1	• •	1	•	• •	•	123	• •	1	1	• •	1	1	•	
+ CHROOCOCCUS MINIMUS + CHROOCOCCUS MINITUS	3729		••	138	++	••	1 1	• •	φ i	11	٠.	090	199		
	108	• •	• •	•	• •	• •	•	٠.	1	•	٠.	1	2	•	•
LANGBY A SP	6.92		33	•	•	•	ŧ	•	,	•	•	•	} <b>'</b>	• • • • • •	:
+ MERISMEDICIA PUNCTATA	1	••	+ •	•	• •	+ + !	•	٠.	e 		••	1	•		••
+ MERISMOPEOLA TENUISSINA	3184		192	16004	• •	60	2002	• •	96	• •	•	2208	1902		•
+ OSCILLATORIA LIMNETICA	9561		203	453	•	536	:'	•	2		•	1395		•	•
+ OSCILLATORIA SP	1		• •	•	• •	2¢ +	•	• •	65		• •	1	1	•	:
+ SPIRULINA HALDR	9;	••	••	1 1	+ +	10	1 1	• •	, ,	11	• •		• •		::
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			* * *		•••	• • •		• • •	•••		• • •	•••		• • •	• • •
ACTURANTED TANASCES	ا		۰ • •	314	• • •	• • •	292	• • •	,	•	• • •	,	•		•
+ ANK ISTROUT SMUS FALCATUS + ANK ISTRODESMUS SPIRAL IS	6 4 6 6 4 6	• • •	• • ·	94	•••	• • •	٦ '	• • •	-1	~ 1	• • •	203			•••
+ CANTERIA SP	١	• • •		,	٠.	• • •	31	• • •	•	10	• • •	1 6	۱;		
CHILAPTCHENAS SP     CHLUMUGONIUM ELCHEATUM		• •	• • ·	<b>?</b> 1	• • ،	, •  • ,  •	91	, <b>.</b> .		. 1	• •	<b>2</b> 1			

TABLE H-4b (cont.)

TAXONOMIC CLASSIFICATION						NUMBER	0	ORGANI SHS		AT S	STATION:		(CELLS/ML	S/M	<u> </u>		•••
•••	=	٠	21	-	• 61	=	٠	•	•	•	•	-	=	•	=	•	•••
				::	***						::	::		::		::	
	1	•	,		•		•	1	•	•		•		•	•		•
◆ CLOSTEBIUM SP		• •	1 10	• •	• •	•,	٠.	<u>.</u>	• •	1 1	٠.			• • ı ı			
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CULLASTAUM PHOBOSCIDEUM	5	++	,	••	• •	•	٠.	•	٠.	ı	٠.	ı		••	١	:.	••
+ COSMARIUM TRILUBELLATUM	•		~	. •	1	,	•	•		ı	. •	1		•	ı	•	•
+ CRUCICENIA APICULATA	21	+ +	<b>*</b> 1	• •	• •	• 1	• •	1 1	٠.	ۍ پ	• •	m •0		••	13.	• •	•
+ CPUCICENIA QUADRATA		• •	5	٠.	••	'	• •	7	٠.	5	٠.			••	•	•	•
CRUCICENIA TETRAPEDIA     DICTACCONACCIONO CON CINCONACCIONO		• •	0 0	•	•	•	•	1	• •			•	:	1	• 1		• • • • • • • • • • • • • • • • • • • •
		• •	<b>,</b>	• •	• • •	•	• •	ı	٠.	0	٠.		:	• •	•		
+ DYSWORDPHOCOCCUS VARIABILIS + FUASTRUM SP	53	٠.		• •	• •	•	• •		٠.		٠.		-	* •	~ '		
+ GOLEAKINI A PAUCISPINA	5	• • •	ı	• •	-	)	• •	1	• •	· -				• • ·	12		
	227	• •	មា	•	36 +	•	• •	1 00	• •	۰	• •	N	2	• •	,		:
+ GONIUM PECTORALE + KINCHNEDIGLA LUNABIN	1 \$	٠.	10		130	':	••	123	٠.	1 0		10		17.	- 6		•
	;		:	•	•	•	•	;	•	: ;	• •	•	, '	•		•	•
+ MICHACTINIUM PUSILLUM V FLEGANS	1 1	• •	1 1		• •		• •	ē'	• •	7 '	••	<b>P</b> I		* * 5 !	2 1	• •	
	136	+ 4	56	•	+ 50	•	• •	1	+ •	-			N	•	2	• •	::
+ PANOCRINA MORUM		• •	•		39	•	•	3	• •	٠	• •	•	•	• •	12	•	
+ PEDIASTRUM BIRADIATUM	• •	+ +	1 1	ñ. • •	* * I		• •	59'	+ +		• •			••	' '		
+ PFD!ACTRUM Drib! Fx		• •	1	• •	• •	,	• •	(	• •		••	1		• •	(		•
. PEDIASTRUM DUPLEX V CLATHRATUM	1	• •	1	• •	11	. ,	•	1	• •		• •			• •			
TORDING ROMING A	•	٠.	ı	٠.	••	•	••	•	٠٠	ı	• •	1		• • 1	•	:.	••
+ POLYEORIOPSIS SPINULOSA	11	• •	F	. • •		1 1	• •	1:	• • •	١.		•			1 1		
* SCENEDESMUS ABUNDANS		•	۰	-	105	,	•	21	• • .		. +	1	=	14.5	7		
+ SCENEDESELS ACCETNATUS	';	• •	1 1	• •	20	ñ	• •	•	• •	ı	••	11		• •	1	.:	•
+ SCENEUESMUS ARMATUS V BICAUDATA	21	• •	۱ -	N + +	* *	' '	• •	ē'	<b>+</b> +	1 0	٠.	m i	<b>°</b> <u>∗</u>	• •	==	::	::
* SCENEDESEUS BIJUGA	5	• •	2	٠.	••	-	++	ŧ	٠.	-	٠.	,		• •	ő	.:	•
* SCENEDE SAUS DENTICULATUS				•	•	•	•	1	•	11	•	1	2	•	2 1		•
+ SCENEDESMUS GUACHICAUDA	182	+ +	n		• • 0	26	• •	•	٠.	0	٠.	•	7 	••	98	:.	:
+ SCENEDESMUS SP	273	• •	0 (		70	,	• •	5;		0	. • .	•			119		
+ SELANACIACE		٠ ٠	۱ ۱	. • .	, t	. •	• •	; '	• •	1				• • ·	1 1		
+ SPUNCALUSIUM PLANUM	1	• •	5.9		• •	٠	• •	•	• •	2.7	••	60		••	,	. :	•
+ STACHASTFUM SP + TETRAFERON CAUDATUM	36	••	o^	••	• •	1 •	+ •	1 2	••	1 1	••	ا ۵	-	• • • •	200		••
		٠.	ı	••	••	'	••	•		,				••	1		•
* TETTALETON PLOULARE	•	• •	1			1	•	1	• •	ŀ	• •	1		• •	- 21		
	•	٠.	ı	••	••	•	• •	•	• •	m	••	1		••	•	:.	:

TABLE H-4b (cont.)

TARENCHIC CLASSIFICATIEN (CELLS/ML)			•	Z G G G	DF ORGANI	NUMBER OF ORGANISMS AT STATION:	A110N: (	(CELLS/ML	()	••••
•••	=	21	2	:	57	2	:	<u>.</u>		•••
	::	••••••••••••	• •						•••	
TETRASTRUM FLEGANS TETRASTRUM HETT HOCANTHUM TETRASTRUM STAUKOGENIFORME	111	111	274	111	118	111	111	1186	115	• • • • • • • • • • • • • • • • • • • •
TRECEABLE SETICERUS	in .	1	25	1		1		1	*	
CAYPTOPHY CEAE	•		•		•			•		•
CRYPTOMONAS EROSA CRYPTICHONAS SP UNID CHYPTUMONABACEAE	₽.II	N/O +	SP I	111	261	m-1	111	111	111	
O I MO DHY C E A E										••••
	111	<u>.</u> 11	115	110	ស៊ីស្រ	<b>-</b> 11	& l ı	6 I I	111	
KANTEDET CEAE										•••••
	χ 1 I	111	111	<b>#</b> #1	ñ''	101	101	1 2 1	111	
CHRY SOPHY CEAE										• • • • •
CHRY SOCOCOUS SP	11	11	16	11	11	11	11	11	11	

TABLE H-4b (cont.)

TANGACAIC CLASSIFICATION				NUMBER	NUMBER OF DREANISMS AT STATION:	SHS AT S		(CELLS/ML)	Ē)	
	=	12	. 13	-	5.	-		•	•	
BACILLARIOPHYTA (DIATOMS)	•	•	•	•		•	•	•	•	•
ACHNANTHES LANCEGLATA ACHNANTHES LANCEDLATA V DUBIA AMPHICAS DVALIS	181	111	121	191		1	<b>a</b> ni	,,,	111	•••
AMPHERA DVALIS V AFFINIS AMMHERA PEMPUSSILLA COCCONEIS PLACENTILA	+11	111	•••	•••			141			***
COCCOMFIS PLACENIMA V EUGLYPTA CUSCINCOISCUS SP CVCLOTILLA CATENATA	111			••••	••••	-11	en ( )	121		
CYCLCTELLA GLOMERATA CYCLCTELLA STELLIGERA CYCHOLLA LEPTOCFROS	1 30	N:01	4759	*0^_	1631	9	171	808 44	535	
CYMPELLA MICHOCEPHALA CYMPELLA MIMITA CYMPELLA TUMIDA	••••	c11		<u> </u>	<u></u>	: I M			••••	
+ CYMBELLA SP + FHAGII AHIA CONSTRUENS + FHAGILARIA CROTONENSIS	115	11~		<b>4</b> 01	••••		127	112	118	****
FRAGILARIA LEPTOSTAURON FRAGILARIA PINNATA • GCMPHCNEMA PAHVULUM	201	N11		6=4	112	11-	100	121	181	
+ CYPOSIGMA ACUMINATUM + MELOSIRA AMHIGUA + MELUSIRA DISTANS	117	110	-11	111		• 1 •	110	116	321	
* MELOSIRA GPANULATA ** MELOSIRA GRAPULATA V ANGUSTISSIWA ** MELOSIRA VARTARS	136			111	111	117	110	2.2	238	
* MANICULA CCNFERVACEA * MANICULA CRYDIUCFPHALA * MANICULA EXIGUA V CAPITATA	111	(10-1		122	111	1 M M	m <b>e</b> q	111	••••	
+ NAVICULA FRACTA + NAVICULA GASTRUM + NAVICULA PUBULA	111		-112	1 4 0		- I m		111		
NAVICULA SCUTELLCINES NAVICULA SP NITSCHIA ACICULARIS	119	111	111	•••	111	111	,,,	111	111	
MITSCHIA HOLSATICA MITSCHIA ICHOHAIA MITSCHIA KUIZINGIANA	815	111	5 2 2	61-	+11	411	0.11	<u></u>	118	

TABLE H-4b (cont.)

TANDACHIC CLASSIFICATION	•••			NUMBER O	NUMBER OF DRGANISMS AT STATION:	MS AT 574		(CELLS/ML)	()	
	. :		5	-		3-	1		-	
** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NITS SCHIA PALEACEA  ** NIT	111		111	110			411		118	
MITZSCHIA PAPVULA NITZSCHIA SIGNA NITZSCHIA THYBLIOMELLA V VICTORIAE	1;;	111	111	111	111	11-	110	111		
NITZECHIA SP SURINGELA SP SYNEORA DELICATISSIMA	115	116	811	111	111	1	nii	112		
SVAE CRA RUMPENS SVAE DRA ULNA TEMPSINGE MUSICA		(()	111	111	111	181	nen	111	111	
•••••••••••		****	***************************************	***	•	***				•
EUGL ENDPHYCE AE	• • • • •	<b>* * * * *</b>		• • • • •	• • • •	****				••••
FUG ENA SP PHACUS OPPICULAFIS	111	111	111	111	111	111	111	111	: ! !	
TRACMFLOMONAS SP	••••	+ + + + vi	t	1	<u></u>	1	1	<u>.</u>	21	
CILIDHORA	•••••	•		•	•	•				
UNID CILIOPHORA	· · · · ·	***** <u>*</u>	Ė	•	1	1	a.	:	,	
TOTAL NUMBER OF TAXA	+ + + + + + + + + + + + + + + + + + +	• • • • • • • • • • • • • • • • • • •	27471	27471 1515 6794	679	5 5 5	• n	670 6 60 1 64 1 1 4 4 1 1 4 4 1 1 4 4 1 1 4 1 1 4 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6,09	
	***	***			••••	•••••	•			•••••

TABLE H-5a

**LAKE SFMINDLE WATER QUALITY MANAGEWENT STUDY - PHYTOPLAIMTON (CELLS/ML) **
CINEDS OF FIIGINELES (CONTRACT DACKOI-7H-C-0101) PHASE 1, CYCLE 5

(September 25-27, 1978)

TAXBROWLC CLASSIFICATION	•••			NUKREE	NUMBER OF ORGANISMS AT STATIONS	SHO AT ST.		(CELLS/ML)	~	
	-	2	n		•					01
:	•				•				•	•
ANAPARNA SE ANA TAEKNPSIS SP AFHANIZEWINEN FLOS-AQUAE	7504	11930	6615	3420	8484 2238	125.1	25.4	23.5	1 6 5 K	543
DPENDCAPSA DEL ICATISSIMA     APMANGCAPSA ELAMISTA     CHREGENCOS DISPENSOS	116	1 1 1	111	1 4 1	111	ן וי גריי	111	1888	535	1147
CHENOCOCOS LIMETICUS     CHEUCOCOS MINIMUS     LYNGEYA CONTOCTA	01 + #32 + 1296	273	123	191	930	234	1976	12.0	1533 2131	1041
LYNCRYA SD WENTSWOREDIA GLAUCA * MENTSWIDEDIA TENUISSIMA	2 2 4 4 4 4	7.67	2953	114	1860	115	114	119	33	132
BICECCYSTS INCEGTA CSCILLATORIA LIMISTICA SPIFULINA LAXA	000 N 000 N 100 N	25.	E 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2776	24. 24. 24.	13.6 2.6 3.6 5.6	1 H 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15. 19.01 44	2200	042 0447
CHLORIDHYCEAE	•						•			•
- ACANTESPHAERA ZACHADIASI - ACTINASTRIP HANTZSCHI! - AVKISTRIPESMUS FALCATUS	• • • • • •	1126	111	119	111	115	112	115	115	1++
ANKISTHONESMUS NANNOSTLENE ANKISTRONTSMUS SPIPALIS CARTE-IA SE	75.0	17.1	5101	1225	1,42	15.0	101	1 7 9	251	150
CHLABYDGMGNAS SP CHLCRELLA SP CHLCHCCCCUM MUMICOLA	111		110	111	111	<u> </u>	111	112	g''	
CHODATELLA CHONATI CHOTATELLA SU'SALSA CLCSTEHTUM SU'SALSA	5	151		165	188		112	117	112	1 1 1

		$\vdots$	:: ::	:::			::	•					•••	• • •
TANCMUMIC CLASSIFICATION					A LMIII 4 CF		CHGANI SWS	=	STA1104:	<u> </u>	CELLS/ML	()		
	-	٠	•	c	•	٠	•	٠		•	•	•	•	• • •
							•							
C JEL ASTRUM MICROPOLIM		•	•		0	•	-		•	•		1	-	•
	182	• • •	20	3.0		• • •		· ;;		1 4	100	, £		• • •
di milawasu) +		• •		•	••	• •	0.3	• •	• •	••	1	,		• •
+ CAUCTIFUTA APICULATA + CRUCTGENIA GUADBATA		• •	21		••	٠.		••	••	• • • • • • • • • • • • • • • • • • •		• •	••	• •
	• •	٠.	1		• •	• •	١	+ +	••	••	1		••	• •
+ DICTACSPEARFICE POLCHELUM + PASSCRETZOCCOU, VASTABILLS	33	••	11	244	£.	••	٠.	••	2 ••	••	ć. '	1.	151	٠.
or and party	• •	٠.	1	•		٠.	١	• •	٠.	••	,		••	• •
+ CIFRETHIA PAUCISPINA + GILERKINIA PACIATA	••	••	18	F.	103	••	1 5	15	••	37	1 4	15	3.	• •
		٠.	'		••	٠.	•	••	••	••	•		••	• •
+ MINCHARGELLA CONTORTA + MINCHARGELLA LUNARIS	182	• •	, ₁		181	••	1 0	32	٠.	13	11	1 5	12	* *
	502	• •	5.5	F	••	• •	•	++	••	••	•	بر در	,0	• •
MICRACTINIUM PUBILLUM     COCYSTIS SF	••	٠٠	11	' <u>F</u>	' <b>;</b>	+ +	320	••	••	12		١2	• <del>•</del>	• •
TANCOR ADDIT		• • •	11		•••	• • •	1 1	10.	•••	• • •	11			• • •
				1	• • •	• •	• •	127		• • •	•		•	• •
+ DEDIASTRUA CRTUSOM		• • •	,	•		• • •	•	•	<u>.</u>	190	:	Š	•	٠ ٠
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+ POLYTONICA SPANOLINA		• •	, ,	<del>-</del> '	••	• •	ıł	••	••	••			••	• •
+ SCENEDE SHUS AUGUSTAN	• • •	٠ + ٠	04	•	· •	• • •	•	÷;	• • •	+ + ·	68	11	139	• • •
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+ TETRACOPHA PROMIME + TETRACOPHA TOTACHOM	• •		,,	[]	11	• • •		11			11	11	11	• • •
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TABLE H-5a (cont.)

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TABLE H-5a (cont.)

TANGMIC CLASSIFICATION				NUMBER	SAS INDEED AT	145 14 545	)) : wolle	CELLS/ML	·	
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1-4C ILLAP TOPHYTA (DIATINS)										
ACHMANTHES SP ACHMANTHES LANCEDLATA V DUPLA CHECONETE PLAC WILLA V CHALLYPT	364	<u> 25</u> 1	\$11		120	<u>2</u> 11	711		111	3 <u>1</u>
CYCLCTELLA GLOWERATA CYCLCTELLA GLOWERATA CYCLCTELLA STILLIGIPA	1.0.1	177	115	191	174	127	117	112	116	1102
CYMPELLA DELICATULA CYMPELLA MICEJCEPHALA CYMPELLA TUMILA	111	111	111	111	111	111	,,,	111	111	
CYMPELLA SP F FLAGILAPIA CONSTRUENS F FFAGILAFIA (FOT**FNSIS	111	115	1 1 %	112	192	115	116	110	112	111
FEAGILARIA LEPTOSTAURON FFOGILARIA FINNATA • GIMPHINGMA PA-VILUM	111	111	111	111	111	111	,,,	111	111	111
GYRESIGNA ACUSINATIM MELUSIKA AWISOJA P. MELESIKA AWISOJA	227	134	118	242	1 1 8	12.6	116	ij	15.	i i à
• MTLOSIKA GRANULATA • NAVICULA CRYUTICEPHALA • NAVICULA EXTINDA V CAPITATA	541	611	211	210	320	411 6	(5) I	<u>4</u> 11	\$ 1 1	<u>.</u>
• NAVICULA GAFTIUM • NAVICULA LATTUS • NAVICULA PUPULA	111	111	111	111	111	111	116	112	112	111
* NAVICULA PUPULA V MECTANGULAPIS * NAVICULA SCUTELLGIDES * NAVICULA SF	111	111	<u></u>	111	111	111	111	111	1 <u>C</u> 1	111
• NITZECHTA ACICULASIS • NITZECHTA PLESATICA • NITZECHTA KUTZINGIANA	<b>25</b> 25 2	151	171	200	2 2	, <u>, , , , , , , , , , , , , , , , , , </u>	27.1	1-1-4	+11	201 201 201
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TABLE H-5a (cont.)

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TARONOMIC CLASSIFICATION	••••			A CHUER C	F ORGANI	SHS AT ST.	) :NO1.1	ALMUER CF OFGANISMS AT STATION: (CELLS/ML)	<b>-</b>	
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EUGLENDHYCEAE								•		
EUGLEMA SP PHACUS SP TRACHEL CHONAS SP	717	118	111	111	161	911	111	111	115	5 m
WEDIGOT 113		•			•	•	•	•	•	•
· UNIC CILIOPHORA	1	1	1	1	1		<u> </u>	ň	2	£.
TOTAL NUMBER OF ORGANISWS 26031 + 28087 + 15203 + 28183 + 1016 + 13818 + 13726 + 17777 + 15203 + 28183 + 1016 + 13818 + 13726 + 17777 + 18088 + 1016 + 13818 + 1016 + 13818 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 1016 + 101	21808 21808	24631	28097	15203	35	#623 #5	19316	######################################	13726	, , , , , , , , , , , , , , , , , , ,
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TABLE H-5b

**LAKE SEMINDLE WATER OUALITY WANAGEMENT STURY - PHYTOPLANKTON (CELLS/ML) **
CORDY OF ENGINEERS (CONTUACT DALMOI-79-C-0101) PHAGE IS CYCLE S
(September 25-27, 1978)

	••			NO.	פש טוב כ	RGANTS	NUMBER OF ORGANISMS AT STATIONS	ATT-JN:	(CELLS/ML	/A_		
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TABLE H-5b (cont.)

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+ FUASIKUM SP + GULEAKIMIA PAUCISPINA	••	٠.	••	1 41	٠.	••	1 1	٠.	1 1	٠.	, ,		• •			• •
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TABLE H-5b (cont.)

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TABLE H-5b (cont.)

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TARCHCHIC CLASSIFICATION				ž	S S S S S S S S S S S S S S S S S S S	NUMHER OF DAGAMISMS AT	SWS		57AT10N:	(CE	(CELLS/ML	~	
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HACIFFA IDDHATA (DIATINS)				• • • •			• • • •	• • • •		• • • •	• • • •		
••			• • •	++			+ • •	•••		•••	•••		• • •
* ACMMANTHES SP * ATHVANTHES LANCEDLATA V DUPLA * CHCCONFIS PLACENTULA V EUGLYPTA	181	171		• • • •	144	121	• • • •	111	115		111	4 1 1	
COSCIANDISCUS SP CYCLOTELLA GLOWEWATA CYCLOTELLA STELLIGLMA	13.2	F17	523	• • • •	23.	344	• • • •	<u> 22</u>	čtu	• • • •	25. <u>2</u>	577	
CVMPSLLA DELICATULA CVMPSLLA VICEDIALA CVMPSLLA VICEDIALA	111	121		• • • •	មុស្ត (	111	• • • •	111	110		111	121	
CVMFCLLA SP + FFAGILADIA CONSTRUENS + FFAGILADIA COUTCNENS IS	111	111			<b>4</b> € 1	111		111	111	••••	111	111	
FRAGILATIA LEPTOSTAUPON FRAGILAFIA FINNATA GINON DENNATA	111	K91	• • • •		84- 64.4	111	••••	111	• • •	••••	111		
GVRCSIGNA ACUMINATUM  • MELOSIGA AMHIGUA  • MELOSIGA AMHIGUA	116	117	111		11+	114	• • • •	111	*19	• • • •	114	115	
* MELCSIFA GRANUL ATA + NAVICULA CEYPTICEPHALA + NAVICULA EXIGUA V CAPITATA	811	111	••••		112	111		110			· · · · ·	<b>7</b> ''	
* NAVICULA GASTRUM * NAVICULA LATENS * NAVICULA PUPULA	116	111			411	111		4.4	1 1 1	• • • •	111	111	
• NAVICULA PUPULA V PECTANGULARIS • NAVICULA SCUTELLOTUES • NAVICULA SP	111	111			414	111	• • • •	1 1 5	112	• • • •	111		
NITZSCHIA ACICULARIS NITZSCHIA HILSSTICA NITZSCHIA KUTZINGIANA	183	117	' <u>=</u> '		1 4	111	• • • •	151	٢٣ <u></u>	• • • •	282	121	
MITZSCHIA PALCA NITZSCHIA PALFACEA NITZSCHIA SUITLIS	111	171		••••	111	111		«I;	+ 1 +	••••	111	112	
• NI7/SCHIA «P • DINNULA» IA SUNETICA • BHIZCSCLENIA SP	118	111			111	111		e11	* * 1	• • • •	())	211	
SYNEDBA DELICATISSIMA SYNECPA ULNA	11	16	• • • • •		44	1 4	***	11	10	****	<u></u>	1.1	
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TABLE H-5b (cont.)

TANCHEMIC CLASSIFICATION				NUMBER O	F DHGANTS	NUMBER OF DIGANISUS AT STATION: (CELLS/ML)	) : wo (	CELLS/MI	<u> </u>	
	· :	. 21	5	:	5	9	•	•	-	
EUCLENDHYCEAE	••••••	• • • • • • • •	•	••••••	•	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •			
FUGLERA SP PHACE ST Trackflowowas SP	111	711	811	010	111	æ11	lin	F 1 d	12	
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UNIC CILICPHORA	• • • • •	<u>.</u>	1	6	2	• • • • •	1		2	
TUTAL MUMPER OF DEGANISMS 2592 23330 1101 9605 1371 688 0701 5621 9900 34 85 29 29 30 34 85 35 4000 34 85 85 85 85 85 85 85 85 85 85 85 85 85	2.45.30	2582	23330	5 3	6 0.5 0 0.7 0 0.7	1321	E E		1242	

TABLE H-6a

**LAKE SEMINALE WATER QUALITY MANAGEMENT STUDY - PHYTOPLAMKTON (CELLS/ML)**

CHOPS OF FIGURERS (CONTRACT DACEDI-78-C-0101) PHASE 1, CYCLE 6

(NOVEMBER 28-30, 1978)

TAXCACHIC CLASSIFICATION	NUMBER OF SRGANISMS AT STATION: (CELLS/ML)			NUMBER	OF DRGANI	NUMBER OF DRGANISMS AT STATION:		(CELLS/ML)	II.)	
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A APHANICAPA DEL LOAT (SA TAR			•••		•	, , , ,		***	972	•
+ APHANDCANSA ELACHISTA + APHANDTHECE NEDULANS	+ 3675	126	;''	nos			11			11
+ CHADOCOCOCO DISPERSUS	••	1379	362	9011		479	328	• •	340	966
+ CHACCOCOS SB + GOMPHOSYMATRIA #1CHURAE		11			11	•••	• • •	•••	• • •	
+ LANGEAN CONTOUTA	1611	' ;	1	201	1	';	7.5			•
+ BICECOSTIS TATUSSIMA	2403	2631	629	1900	33.4	2241	721	126A	3134	2040
+ ESCILLATORIA LIMMETICA + CSCILLATIOIA SO	11	• • •	101	11	11	508	946	506	21	473
	• •		• •	•			• •	• •		
							•	•		
+ CMLUPNPMYCFAE	••	٠.	••	• •		••	••	••	••	
• • •	• • •	• • •	• • •	• • •		• • •	• • •	• • •	• • •	
+ ACTINASTOUM HANTZSCHII	1	1	1	1	1		1	,	1	199
A ANALISTRUDUS SAUG NANIOS FILENE	00	<u>0</u> 1		500	E.	5'		• • •		24
* ANKISTRODESMUS SPIRALIS	60	63	67	00	Ξ	0	252	061	366	3.0
+ CHIAPY DEINAS SP	10		27	00	1=	2 -	ı ç	' é	130	• •
• CHICKLILA SP		32	••	,	67	,	,	••	1	٠
+ CHODATELL CHODATI	••	••	••	11	• •	11	• •	•	• •	۱,
		. •	•	•		•	•			
* COFLASTRUM MICHOPOLUM  • COFLASTRUM MODUS	\$ 55°	••	107	100	• 10 • 4 • 4	••	4 307	m :	5 1 FD	
+ COELASTRUM PROPOSCIDEUM			**				. 72		52	1 44
+ COELASTAUM SPINAFRICUM		1	1	1	1	1	1	1	1	•
+ CCUCARIUM SP + CFUCIGFNIA ADICULATA	339	254	••	100	178	* \$08	. 1	11	1664	001

TABLE H-6a (cont.)

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TANGULUE CLASSIFICATION					ALWEER CF	CF CHCANISMS	-	STATION:	(CELLS/ML)	/ML)		
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CBUCINENTA QUANDATA	1	٠	•	1		•	• •	• •	• •	• •		
A CACO TOWN IN THE CAMP COMM	• •	••	- 222	322	1 2	• •	101	+ 252	+ 204	•	20	100
		٠	•		•	•	•	• •	• •	• •	• •	5.5
ELEKATOTHOLD GELATINGA		••	• • • •	1 =	11	• •	• •	••	•	•	1	; 1
COLENA DADIATA	35	•	<b>.</b>	2	50	=	ç	<u>«</u>	•••	••	5	52
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TABLE H-6a (cont.)

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TAXUNCHIC CLASSIFICATION				NUMBER O	F DRGANI	NLWULH OF DAGANISMS AT STATION:		(CELLS/ML	<b>-</b>	•••	
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CFYDTOPHYCEAE									•		
CAVETCHONAS FUOSA	1	1	1	1	,	'	'	,	1		
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XANTHODIYCF AC							•			•	
AHACHVECHL PG1S SP	1	1	'	1	ı	1	1	,	,		
CHLYSOPHYCEAF	•									•	
CHBYSOCOCCUS SP	11	11	<u> </u>	11	11	11	<u></u>	1 2	25	1 15	
BAC ILLAY JOPHYTA (DIATOWS)						•				•	
+ ACHNANTHES BP + ACHNANTHES LAWCINATA V DUBIA + ASTLUTIVE LLA FORMOSA	111	111	121	111	121	1 6 1	111	I N.C.	111	85°	

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COCCESTS FLACENTILA V EUGLYPTA  CONCINCISCUS SP	) <u>*</u>	10	16	11	,,	100	1 €	15	, in	10
+ CYCLOTELLA CATEMATA	,	9		1		'	•	,		••
CYCLOTELLA GEOMFGATA     CYCLOTELLA SYFLE STREAM	117	1 4 1	10	100	1 2	1 10	162	15	16	100
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CAMPELLA LEPT ACEDAS	)			11	• •	•	1 1	11		11
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CYMPELLA TUMIDA	11					11	11	11		' ' '
+ EUNCTIA CIRCATA	,	1	•	0.	١		1	1	,	1
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MELDSINA GRANILATA V ANGUSTISSIMA + MELDSICA VARIANS + NAVICULA CENFRANCEA	111	••••	201	# • • • • •	8=1 *	g i i	111	<b>#</b> 11	111	111
MAVICULA CRYPTOCEPHALA     MAVICULA CLOIP NSIS     MAVICULA EXIGUA V CAPITATA	111			111		111	<u> </u>	111	111	111
MAVICULA GASTOUM MAVICULA GASTOUM MAVICULA GASTANTA MAVICULA LATENA	111	919	<u>n</u> 11	121		111	111		111	111
* MAVICULA DUDULA V FECTANGULARIS * NAVICULA DUFULA V FECTANGULARIS * NAVICULA SALIMATUM V INTEREDIA	111	211	211	112		<u> </u>	<u>c</u> ::	,,,	111	\$ : 1 20
• NAVICULA SCUTFLLDIDES • NAVICULA SP • NITZSCHIA ACICULARIS	114	111		,,,	"=	1 2 2	11 6	112	32.7	118
• NITZSCHIA MUSAVICA • NITZSCHIA KUŽZINGIANA • NITZSCHIA ORTUSA V SCALPELLIFORMIS	8 + 4	<b>4</b> 11	1 23	001	011	ŽŪ.	59'	₹£1	011	55.
+ NI 12 SCHIA PALLA + NI 12 SCHIA PALLACEA + NI 12 SCHIA SP	112	1 1 25	E12	110	118	113	<u> </u>	115	115	5,15
+ PINNULETUA ATMUS + SHOTETUA ATMUS + PINNULARIA SP	111	1 <u>6</u> 1	111		111	111	111	,,,	111	111

TABLE H-6a (cont.)

JANCHOOMIC CLASSIFICATION	•	- - - - -	•	NUMBER	F GRGANI	NUCE OF ORCANISMS AT STATION:		(CELLS/ML)	۲)	· · · · · · · · · · · · · · · · · · ·
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SARIOTELA SO SYNEGE DELEATISTIMA  SYNEGE DELEATISTIMA VANGUSTISSIMA	111	175	111	201	111	111			111	181
SYNFOR GOULARD SYNFOR SYNFOR A SYNFORA LURA	111	121	111	111	111	111	111	111	111	
		· · · ·	1	1	1	1	<u>.</u>	1	'	1
EUSLENOPHYCEAE	•									•
FUGLENA SP + LFPOCINGLIS TEXTA + FMACUS SP	<u>*</u> 11	118	122	011	111	117	111	111	111	111
TLACFLL DWINAS SP	•	ı	1	on n	=	'	1	9	_	1
C I L I OPHORA										
UMID CILITERPRA		•	č	2	1	1	<u>-</u>	<u> </u>	1	# * * * * 80 N
ROT IFERA	•					•	•		•	•
* KFGATELLA COCIALEARIS • UNIC HOTIFFR	11	1 1	11	11	11	11	<u> </u>	11	11	•••••
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TABLE H-6b

**LAKE SCHINDLE WATER QUALITY MANAGEMENT STUDY - PHYTOPLAMETON (CFLLS/ML)**
COLPS OF ENGINEERS (CONTRACT DACMOI-TR-C-0101) PHAST 1: CYCLE A

(NOVEMBER 28-30, 1978)

	TAKONOMIC CLASSIFICATION	•••			NUMBE	4 OF OR	GANISI	NUMBER OF ORGANISMS AT STATION:	TATIO	:: :			
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TABLE H-6b (cont.)

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TABLE H-6b (cont.)

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TABLE H-6b (cont.)

APPENDIX I
ZOOPLANKTON

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TABLE I-1a

ONLAKE SEHINDLE WATER QUALITY MANAGEMENT STUDY - ZOOPLAMITON (ORGANISHS/100L100)
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(April 17-21 107R)

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FURDINA SPAZONICUM ANI-COPTUM ANAZONICUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI-COPTUM ANI	171	100	151	) B (	111	11	111	1 2	11	

TABLE I-la (cont.)

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ACTIVICATION OF DINCHORDE				MINNER OF	04 0864	ORGANISMS AT STATION:		(ORGANISMS/100 L)	MS/100	_
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OSTRACODA			• • • •	•••	• • • •	•••	•••	•••	• • •	•••
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a* 51 aa > 0 +	,		1		1	1	1			•
**************************************									***************************************	
ROTIFERA			• • • •	• • • •	• • •	•••	• ••	• • • •	• • • •	• • •
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+ ANT URIDBOILS SP	11	10	11	11		•••	• • •	•••	111	•••
+ ACT, ANCHAR PRINCONTA	1		1		• •	• •	••	· ·	•	
+ POACHTOWUS ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHTAIN AND MILE ST - CHT	111	100	111		•••	•••	•••	•••	111	• • • • • • •
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+ GASTATIVES SP + KFRL TOTTIA SP + KFRATFLLA COCHEARS	20	10	'ñ	12	12	<b>1</b>		1 N	ne n-	<b>6</b> 10
+ MONGSTYLA SP + NOTMALCA SP + DADAFOLUPFLA SP	110	115	111	1 1 8	112	116		111	''5	110
+ PLATVIAS SP + DOLYABINAA SP + THICHNCEBCA SP	111	144	123		181			111	111	ee <u>s</u>
+ UNIDENTIFIED BOTIFERA	1		'	•••		1			1	1
•		•	•	•	•	+	•	•	•	•

TABLE 1-1a (cont.)

TANONOMIC C. ASSIFICATION				MJMBER	DF ORGANI	NUMBER OF ORGANISMS AT STATION!		(ORGANISMS/100 L)	4S/100	()
	-		n	•	•			•		-
VOZULONA										
	t an I	1 6 2 2 6 2	, ø ,	1 80 I	100	1 2 1	117	11-1	101	1 = 1
HISCFLLANGA										
		1	,	1	1	1	•	1	1	•
TOTAL NUMBER OF TAXA 13 16 11 12 10 10 10 15 15 15 16 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	62 de 1	0 6	<u>.</u>	320	9 0	6 6	201		, n	2677
		***								

TABLE 1-1b

OBLAKE SEMEMOLE WATER OVALITY MANAGEMENT STUDY - ZODPLANKTON (DRGANISMS/1801)OBLAKE CARRY OF ENGIVEEDS LEGNIBACT DACWOI-78-C-01011 PMASE I, CYCLE I 'April 17-21, 1978)

TAXPNEMIC CLASSIFICATION	• • •				NUMPER	NUMPER OF ORGANISMS AT STATION:	ANI SMS	AT STA		(ORGANISMS/100 L)	MS/100	<b>(</b> )
	=	21	•	13	=	+	•	•	=	•	:	•
	•••					:::	<b>::</b>			***	**	
C 19E 9 110 A	•••	•••	•••	• • •		• • • •	• • • •	• • •		•••	• • • •	
CAL ANOTOA	• • •	•••	•••	•••		• • •	• • •	•••		• • • •	• • •	•••
DIAP TOWUS WISSISSIPPIENSIS	•		•••	r	•	• • •	 N	* * * m	•	321	ž	
CYCLOPOTOA		• • •	• • •	. • •		•••	•••	•••		***	•••	•••
CYCLOS BICUSPIDATUS THAMAS!	18		•••	ı,	۱,۰	• • •		<u></u>	• •	239	101	
VCL OPS EDAX	ĥ	••	••	en .	<b>:</b>	••	••	+ <b>+</b>	•	•	: ••	
TROPOCYCL OPS PRASINUS	'	<u>:</u>	• • •	-	•		* + ·	1	•	1	•••	
11 Tally	1033		••••	e e	<u>.</u>		ñ. • • • • • •	2	•	<u> </u>		
**************************************			•••••			•••••	•••••					••••
ALONA 49 ALONE 10 DECEMBER 1981	50 51	1 10	•••••	115	113	•••••	115	***** M1g	114	361.1	1 1 5 A	
FOSH INDDS IS DE 1 TERSI CFR 1 TO APPINIA S P CHR 1 TO APPINIA S P		100	***	110		• • • •	* + + + ·	111	111	••••	1 M 1	
DARHNIA PARVULA Pabyania SP Diapwandsoma Rrachfubum	01.5	119	••••	# 1 E	116	••••	111	m i i	111	90 9	90 P	
FURO SAINA SP HOL OPEOLUM AMAZOMS CUM CINCIEPHALUS, SP	1 2 2	111	••••	115		• • •		111	111	278	'E'	

TABLE I-1b (cont.)

TAMPNOMIC CLASSISICATION				NIMBER C	OF DRCANT	NIMBER OF DREANISMS AT STATION:		(ORGANISMS/100 L)	SMS/100	<u></u>
			-		5.	*	. 17	9-	:	
DSTRACODA										
cyan Is so	,	1	1	•	1			••••		
######################################										
ANEUROPSIS SP ASCOMORPHA SP ASPLANCIMA POTODONTA	1 1 1 1	119	1190	112	•1•	112	114	1 146	1975	
RPACHIONUS SP CEPHALADELLA SP CONJCHILUS INICORNIS	<u> </u>	111	110		118	••••	+++	g::	£'2	
GASTROBUS SP KFLLICOTTIA SP KFRATELLA (OCHLEARIS	111	' Rg	n 1 g	111	116	l m i		117	1 15	
MONOSTVLA SP NDTHAM CA SP PARACOLUPRILLA SP	112	119	118	<b>F</b> 11	1 24	*11	••••	116	110	
PLATVIAS SP POLYARTHRA SP TRICHOCERCA SP	201	119	811	111	1 4 8	1 I M	118	2' a	120	
UNIDENTIFIED BOTTFFPA	••	,	1	, ·	,	m ••	••	••	••	•

TABLE 1-1b (cont.)

•••••••••••••••••••••••••••••••••••••••										
ACTUACHTURES AND CHROSTER				- FINENCE	HUMBER OF ORGENISMS AT STATION: (OKGANISMS/100 L)	545 AT 511	)) :2011	KGANISH	45/100	
•••	=	~	:	:		•	11 • 11	•	•	
		•								
407.070 ZOA	• • • •	• • • •	••••							••••
ANTICELLA SP	111	¢ i i	111	151	NI I	mii	111	121	121	
HISCELLANDA A THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE		•								
A CON	1	1	ı	,	ı	1	1	1		
10111 NUMBER OF DRGANISMS + 7360 + 2151 + M30 + 302 + 284 + 165 + 67 + 7892 + 6948 + 8898 +	7860	2131	# 30	302	82	591		1892	8,60	
NUMBER OF TAXA	<u> </u>	n n	2	=	5	<u>n</u>	•	<b>:</b>	<u>-</u>	
	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •							######################################	

TABLE 1-2a

CORPS OF ENGINEERS (CONTRACT DACHOL-18-C-0101) PHASE 1, CYCLE 2 (JUNE 5-7, 1978)

				***	***	•••				
TAXOMOMIC CLASSIFICATION				NUMBER	NUMBER OF ORGANISMS AT STATION:	MS AT ST		RGANISA	(ORGANISMS/100 L)	
•••	-	~				•			•	91
										•
+ COPE BOOA + +	•••			•••	• • • ·					
CALANOIDA	•	•••		• • •	•••	•				
+ Olabtowis mississippimusis + + + + + + + + + + + + + + + + + +	5		320	=	2	98	<b>8</b> 10	92	2	į
+ CYCLOPOIDA +		•••		• • •	•••	•••		•••	•••	
+ CYCLOBOTO COPEPODITES + CYCLOPS SH + FUCYCLOPS AGIL 18	1 2 1	1 101	' <u>=</u> '	191	### ###	~ 21	121	871	121	186
+ PPSOCYCLOPS FOAX	81	<b>8</b> '	151	; ·	<b>9</b> 1	g '	<b>6</b> 1	<u>5</u> 1	Ē'	g'
+ HARBACTICOTO				•••	•••	•••		•••		
+ ATTHEY BLA SP	1	1			1	,	1	1	1	,
	10.	6 <b>2</b>	k n	10 pp	392	0	PI 0 d	<b>106</b>	  9	2302
CLADOCERA					••••					
POSMINA LONGINOSTRIS ACCALINDATIA CELTERSI CREMINA BANKIA SP CREMINA BANKIA SP CLAMMACON REACHVURUM CLAMMACON REACHVURUM MCC PF COOR REACHVURUM LEPTORORA KINOTII	Primano ii Po	Dij Cie ii N	+   0:00    	11	#11 ##1 n1	040 040 11 0	#11 <b>640</b> 11	<u>.</u> 10 616 11	0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

a service of the service of

TABLE 1-2a (cont.)

* * * * * * * * * * * * * * * * * * *				•		TOTAL ORGANISMS AT STATION:	18 88 1	MUMBER OF CREATING (ORGANISMS (ORGANISMS )	) :MCI	ORGAN	SWS1A	/100	
	-	~		•	•	•	•	•	٠	•		•	2
									::				
OSTBACODA			•••	• • •			• • •	• • •			• •		•••
	••		••	••		• • •	• • •	••		••	• •		••
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	•••		•••	***		. • •	•••	• • •		•••	•••		•••
ASPLANCIALA POLDOTHTA BARCHIMUS ANGUI ARIS RPACHIOUS HAVANAENSIS	911	<b>2</b> 11	••••	111	111	N 1 80	••••	## · · · ·	<b>N</b> 1 N	••••	**** 83 83	-60	2630 1837
BPACHTOLUS SO COUDCHTLUS UNICOPNIS	111	1 N I	• • • •			P.P.	• • • •	101	114	• • • •	111	111	••••
GASTANPUS SP KFLLICOTTA SP KFGATFLLA AMFBICANA	191	141	••••	**** ' <u>2</u> '	111	1 <u>4</u> n	••••	•••• •••	161	••••	••••	911	•••
REDATELLA COCMERARIS REPATELLA SP LECANE SP	211	<b>F</b> 11	••••	111	111	211	••••	++++ 1 0N	101	••••	181	111	++++
MONOSTYLA SP PLATYIAS PATULUS PLENSOMA MJOSONI	111		••••	••••	111	M 1 1	••••	•••• •••	111	••••	· · · · · · · · · · · · · · · · · · ·	111	
POLYARTHRA YULGARIS Polyarthra SP Trichocerca Longiseta	110	181	• • • •	111	111	111	• • • •	11N	111	• • • •	• • • • • • • • •	111	2'2
UNIDENTIFIED BOTIFEBA		'	•••	٠٠. ١	1	•••	••	+ + ·	٠	٠٠.	•••	1	•••
	•		•	•	•		•	•		•	•		

TABLE I-2a (cont.)

TAMOMOTIC CLASSIFICATION	• • •			NUMBER OF	MUMBER OF DRGANISMS AT STATINE	MS AT STA		OKGANI SP	(ORGANISMS/100 L)	$\hat{}$
	-	•	'n	•	•	•		•	•	•
VID Z L L D R D	•••	•••••	•							
S XOATOA	11	11	11	11	11	11	NO	11	11	11
MISCELL ANGR				• • • •						
CHARGERIUS SP MYDRAC RAINA OTHER DISTERA UNITHED GLOCHEDIA	111 1	NJ I	F11 6	111 1	міі і	Ø11 1	111 1	111 1	111 1	111 1
TOTAL NUMBER OF TAKA  NUMBER OF TAKA  18 13 10 7 21 20 15 21 18 18 18 18 18 18 18 18 18 18 18 18 18	į.	327		N P			28 53		2891 13	

TABLE 1-2b

THE HATER DALITY LANGENEUT STOOM - PROPLANKEDN LONGANISMS/100 L. (June 5-7, 1978) (June 5-7, 1978)

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TABLE I-2b (cont.)

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(July 17-20, 1978)

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TABLE I-3a (cont.)

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TABLE I-3a (cont.)

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TABLE I-4a

OPPLAKE SEMINALE MATER QUALITY MANACEMENT STUDY - 200PLANKTON (DRGANTSMS/100L100)
CARDS OF ENGINEERS (CONTRACT DACWOI-70-C-0101) PHASE 1. CYCLE 4
(August 14-17, 1978)

TAMPHIC CLASSIFICATION				NUMBER OF	F DRGANT	NUMBER OF DREAMISMS AT STATION:		(ORGANISMS/100 L)	MS/100	<u></u>
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CODEBODV			. • • •					•••	• • •	
CAL AND FDA	•••			• • •				•••	•••	•••
Diaptomus mississippiensis	1	<u></u>	•	•••	5	21	2	,	2	•
CYQ,OPOJOA			••	•••			<b>.</b>	•••	•••	•••
CVCL CPO10 COPEPODITES CVCLOPS SP MESACVCLOPS EDAX	1 6 M	187	114	190	267	0 N S	110	1 7 %	1 7 7 7	111
TROPOCYCLOPS PPASINUS	1	1	•	•••	•	•	1			
	9 5 5	***************************************		· · · · · ·	103	282	9		7	<u>.</u>
CLADOCERA			• • • • • • •	•			•		• • • •	
ROSHIWA LONGIPOSTP?9 POSHIWOPSIS DE ITERSI CERIODAPWIA SP	1311	185	40E	**************************************		98	886 8 6 1		982	151
DARPHIA PARVULA DIAPHANOSOWA GRACHYURUM HOLDREDIUM AMAZONICUM	188	1891	•••	201 201	(5)	161	101	1 2 1	181	151
LETOIGIA ACANTMOCERCOTOES MOINA MACROCOPA PLEUROXUS, SP	151	121	10	51.	161	191	15	183	151	111

TABLE I-4a (cont.)

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TABLE I-4a (cont.)

TANGMONIC CLASSIFICATION (ORGANISMS AT STATION: (ORGANISMS/100 L)		•		* * * * * * * * * * * * * * * * * * *	NUMBER OF ORGANISMS AT STATION: (ORGANISMS/100 L)	# PT ST	) ************************************	ORGANI SI	4S/100	FICATION (ORGANISMS AT STATION: (ORGANISMS L)
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TABLE 1-4b

OPLAKE SFUINDLE WAFFA QUALITY MANAGEMENT STUDY - ZODPLANKTON (OPGANISMS/100L) OPCACE CORDS OF FUGINEERS (CONTRACT DACWOI-78-C-0101) PHASE 1. CYCLE & (AUGUST, 11-17, 1978)

TAKONOMIC CLASSIBICATION					NUMBER	ь	ORGANI SMS AT	SMS A		STATION:	(UKGANISMS/100 L)	SMS I	100	<u> </u>
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COPFFICA		• • •	• • •		• • •	• • •		•••	•••		•••	•••		
CALANOIDA			• • •			• • •		• • •	• • •		• • •	•••		
Diaptomus mississippifusis	*	<u> </u>	•••	£		• • •	ı		~ * *	•	•••	•••	<b>8</b>	
€ VCLOPOTO A		• • •	• •		••	••			• •		••	٠.	•	
CVCLOPOID CROEPODITES CVCLDPS SP MFSOCVCLOPS EDAX	1 4 5 6 4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	77.0	• • • •	105	. 1 25 %	••••	<b>N</b> 1 1	••••	1 8 0	1 4 1	 4 <u>5</u> 1	••••	1-1	
TRUPOCYCLOPS PRASINUS	1		• • •	,	•	•••	ı	•••	•••	1	•••	•••		
MAUDLET	874	92	*****	- 16	<u>8</u>	*****	m		••••• 8	ņ		****	152	
CLADOCERA  CLADOCERA			•••••			••••	•		••••	• • •		• • • • • •		
ROSETINE LONGIBUSTRIS Bosetinesis dei Tersi Certoramenta sp	585 1077 67	<u> </u>	****	1939	118	••••	181		Nān	1 10 1	326	•••••	\$ 5 7 8 6 8	
DAGMNÍA PAPULA DÍAPHANOSOMA BPACHTURUM MOLOPEDIU W AMAZONICUM	1651	' <u>8</u> '	• • • •	220	101	••••	1 10 1	••••	101	111	198	••••	124	
LEVDIGIA ACANTHOCEPCOIDES  MINA MACPICIPA  PLUBONIS SP	1 6	1 FD 1	•••	531	111	•••	1 17	•••	: N	<b>N</b> I	: ••••	•••	':	

TABLE I-4b (cont.)

TREINORIC CLASSIFICATION					MOM	# O	DAGANI	SHS A	T 57A	) :NO11	NUMBER OF DREAMISHS AT STATION: (ORGANISMS/100 L)	MS/100	() (	
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80117€8A	•		•••••				•••••	• • • • • •	• • • • • •			*****	•••••	
ASPLANCHNA PRIDODITA PRACHIONUS ANGULARIS SPACHIONUS RIDENTATA	80 i		••••	1026	111	•••	201	••••	mm i	1 • 1	250 1 260 1 260	,,,,	••••	
BRACHIONUS CALYCIFLORUS BRACHIONUS HAVANAENS IS BRACHIONUS SP	7 6 6 R	116	••••	273		***	120	•••	•••	111	<b>-8</b> 1	- E 1	• • • •	
COMOCMILUS UNICORNIS FILIMIA LONGISETA GASTROPUS SP	2436		** **	\$021 B429	1100		89.48		****	N#	938 705	£ .	••••	
KERAYELLA CCCMLEARIS KERAYELLA SP LECANE SP	1001	118	••••	110	110		5,2	***	110	141	<u> </u>	<b>2</b> ''	••••	
PLATYIAS PATULUS PLATYIAS OUANICORNIS PLEGSOMA MUDSONI	111	<b>3</b> 11	••••	111	169	****	-16	••••	g::	118	112	••••	••••	
POLY APTHMA VULGARIS POLYARTHMA SP SYNCHMETA SP	151	111	• • • •	W	NI!	N I I	<b>#</b> ''	••••	<u></u>	<b>F</b> 11	<b>2</b> 11	••••	 	
TPICHTCFECA LONGISETA	<u>,                                    </u>	,,,	• • •	11	11	• • •	• •	• • •	• •	• •	:-	••	::	

TABLE 1-4b (cont.)

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OPLAKE SEMINDLE WATER QUALITY MANAGEMENT STUDY - ZOOPLAMKTON (DRGANTSMS/4001) OP CORPS OF ENGINEERS (CONTRACT DACUDI-70-C-0101) PMASE 1. CYCLE S
(September 25-27, 1978)

TAMDMONIC CLASSIFICATION				NUMBER	NUMBER OF ORGANISMS AT STATION:	SHS AT STA	, TTON: ((	(ORGANISMS/100 L)	4S/100	$\Box$
•••	-	N .	n	•	n	•	•	•	•	:
	•••	• • • • • • • • • • • • • • • • • • • •			•••			60000000000000000000000000000000000000		
*	•••		•••	•••	•••	•••	***	•••	•••	•••
CALANOTDA +				••	• •	••	•	••	•••	•••
DIAPTOMUS MISSISSIPPIENSIS +	:	1	1	53	1	2	1	1	•••	
CVQ.OPOTOA									• • • •	• • •
CYCLOPS SP	<u></u>	<b>1</b>	91	<u>.</u>	**	21	11	<b>3</b> 1	: ·	•••
PEROCYCLOPS BDAX	946	280	126	14	50	520	687	839	707	•
TROBOCYCLOPS PRASINUS	1	2	1	1	*	1	1	2		•
MALIPLT 1	2098	486	282	21.75	8002	7	<b>8</b>	8	\$	
*******************										
CLADGCERA										
M_CNA SP CAGIBOSTRIS	3008	1 4 6 6	324	144	1192	1 0 0	100 8=	1 2 1	֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	980
CERTODAHMIA SP CHROCHUS SP DABHNIA SP	270	348	£''	\$ 1 N	02 0	152 1	8 ' 8 6	939	311	#''
DIAPHANGSONA BRACHYURUM ILYDCR YPTUS SP MOINA MACHOCOPA	1174	911	8K.	501	<u>5</u> ''	<b>6</b> -1	582		9''	•
SIMOGEPHAN US SP	••	1	,	2	1	1	1	1	,	•

TABLE 1-5a (cont.)

TANDALO C. ACATHICATION	• • •			•	AUMBER (	DF ORGAN	1545 A1	STAT	) :nc1	MUMBER OF DRIGHUSMS AT STATION: (ORGANISMS/100 L)	4S/100	()
		~		٠	•	m	•	•	•	•	•	•
•		•	•									
UNIDENTIFIED DSTRACODA	1	• • • • • •	•••••	• • • • •	2		• • • • •	• • • • •	ı	,		
4 C 34 F C 2	•	•	<u>.</u> 	•	•		•	•••••• •				
ANEUMORSIS SP ASPLANTONIS CALYCIFICALS PRACHINOUS CALYCIFICALS	'\$'	181	- •••••	101	111	181	••••	111	111	121	101	****
PRACHIDAUS FORFICULE (PERGULARIS) RESCHIDAUS HAVANAEN IS CONDOMILUS UNICHDAIS	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1140	***		212	118	• • • •	• • • • • • • •	115		2611	7 F F F F F F F F F F F F F F F F F F F
FUCMLANTS SP FILINIA LONGISFTA GASTRIBUS SP		1 1 8	***		1 1	1 1	• • • •	111	, , , ,		- 111	
GASTWOMUS MYDTOPUS MFRETHER SP KFEETFLE SP	111	••••	••••	••••	111	118	••••		1 11	2	500	918
LECANE SP PLATYIAS PATULUS PLEGSCHA MIGSOMI	<b>'</b> ‡'	1335	1 98		1991	1998	1927	151	101	***	90	i i i i i
POLY ABTHMA VULGAMIS TRICHOTERCA LONGISETA TRICHOTERCA SP	10 62	27.8	19987		18 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	# P P P P P P P P P P P P P P P P P P P		001	45.5	900	66	1973
UNIDENTIFIED ROTIFERA	,	1	••	••	'	•	••	••	1	,	1	•

TABLE 1-5a (cont.)

MUMBER OF ORGANISMS AT STATION: (OPGANISMS/100 L)				NUMBER O	P 086AV19	IMS AT STA	17 TON: (0	MUMBER OF ORGANISHS AT STATION: (OPGANISMS/100 L)	IS/100 L	~
	-	~	ņ	•	•	•	•	•	•	0.
A CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF			•••	•••••						
CHADRORUS SP MEHATODA PELEYPOD LARVAE	<u>m</u> 11	111	(11)	111	111	er i	111	111	111	111
TOTAL NUMBER OF TAXA 15 + 15 + 15 + 16 + 18 + 18 + 18 + 18 + 18 + 18 + 18	10389	986	27273	7500	90661	8731	98 24	7 9 6 8	12903	14972
								***		

outary seminore water ountity management study - zodphameton corganisms/1001300 corps of fugineers (contract daceot-78-c-0101) phase 1, cycle 5 (September 25-27, 1978)

TAKONOMIC CLASSIFICATION					NUMBER	6	SACAN!	NUMBER OF DRGANISHS AT STATION:	ST AT E		(ORGANISMS/100 L)	MS/100	7
•	=	+ 12	•	2	•	٠	•	•	•		•	•	•
	***	:::	:::	::									
Cript P100A		••••	••••		***	••••	••••		••••	••••			• • • •
CALANOIDA CALANOIDA	2		••••	1		• • • •	1		••••	••••	1		•
ACTION DYD	:		. • • •	1	,		•••			• • •	•••		•••
CYCLOBS SP FDGASLIS SP FDGASLYS SP	11	9 1 2	••••	510	21.4	••••	<b>6</b> 11	n i fi	••••	211	1108	239	
TROBAC VCLOPS PBAST NUS	•	121	•••	•	1	•••	,		•••	1	1	1	
NAUPLI I	•		• • • • •	*	£	• • • • •	8	*		120	7.02	0 0 0 0	
CLADGCERA	•	•	*****		•	•		•	<b>:</b>	•••••			
A DNA P COMCIROSTRIS ROCAINA LOMGIROSTRIS	E E E	256 ++ 926 ++ 1926	****	110	111	• • • • •	115		••••	110	188	1 5 %	
CP41 ID APHNIA SP CHYDIPUS 90 DAPHNIA SP	<u>•</u> !!	502	• • • •	• 11	<b>R</b> 11	••••	<b>©</b> ( )		••••	111	=''	111	
DIADIA MOSOMA BRACHYURUM ILYOGRYDTUS SP MININA WACPUCNDA	101	182	••••	211	211	• • • •	128	NNI	• • • •	-11	211	<b>;</b> ' '	
SIMOCE PHALUS SP	1	•	• •	•		•	,		•	•	1	•	••••••

TABLE 1-5b (cont.)

	•••			\$	INER O	F ORGAN	NUMBER OF ORGANISMS AT STATION: (ORGANISMS/100 L)	STATE	) :*	RGANI;	SMS/1	9	<u>.</u>
	=	2	. 13	•	•	13	:	•	-	•	•	•	
OSTANCOD A CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTR				• • • • •	••••			••••					
UNIDENTIFIED OSTRACODA	1	•			•	•		••••	1	1	••••	1	
MOTIFFRA				• • • • • •	•			• • • • • •			•		
ANEUMOPSIS SP ASPLANCHAA PRODOTA BRACHIONUS CALYCIPI CIBILE	1 P	101	· • • • •		11	17		• • • • •	16	10	• • • • •	<b>'</b>	
BRACHICHUS FORFICULA (? MANGULARIS) FRACHICHUS HAVANGENSIS CONOCHILUS UNICORNIS	7 7	915	7823	••••	1 14			••••	: E'	213	••••	, W.	
EUCHANIS SP FILINIA LONGISETA CASTRIDUS SP		· ' •		••••	• • •	'''	• • • • •	••••	111	' '	••••	•	
GASTROPUS MYPTOPUS HEXARTHDA SP RERATELLA SP	2		8	••••	, ,,,	21.5	: ''-	••••	1 119	'':	••••	111	
LECANE SP PLATYIAS PATULUS PLECSOMA MUDSONI	22.	367	••••	***	****	! <b>'</b> ≅'	।	••••	1 1 4 1	: '';	••••		
POLYARTHRA VULCARIS TRICHOCERCA LONGISFTA TRICHOCERCA SP	15.0	## C	215	• • • •	g: :			••••	119	<b></b> ='	••••	221	
UNIDENTIFIED BOTIFERA			1	. • •	+ + -	•		••	: -	1	• • •	,	

TABLE 1-5b (cont.)

					•					• • • • • • • • • • • • • • • • • • • •
マントイントレジャイン ショオノマショイト				NGRAFA	NUMBER OF ORGANISMS AT STATION:	SMS AT 51/		(ORGANISMS/100 L)	SMS/100	()
	:	2		:	<u>.</u>	•	-	•	•	. 14 . 15 . 16 . 17 . 18 . 19
STSCFLLANEA + + + + + + + + + + + + + + + + + + +			• • • •	• • • •		••••		•••	••••	••••
	111	1=1	111	<b>4</b> 11	111	111	111	118		
TOTAL NUMBER OF CREANISMS 9746 8296 16404 1579 1525 166 307 8270 6963 60606 16 12 16 10 15 16 16 16 16 16 16 16 16 16 16 16 16 16	0	82.0		- 187 - 187	19226	9 -	307	0.46	<u></u>	

**LAKE SLMINGLE WATER GUALITY MANAGEMENT STUDY - ZOUPLANKTON CORGANISMS/1901/10**
COMPS OF ENGINEERS (CONTUACT DALNO)-78-C-0101) PHASE 1: CYCLE D
(NOVEMBER 28-30, 1978)

FAKENGMIC CLASSIFICALION				NUMBER :	NUMBER OF UPGANISHS AT STATION:	NS AT SH	) :~6114	(ORGANISMS/100 L)	4S/100 L	~
	-	~	ſ		r		_	-		0
						•				•
CALANGIDA DIAFTCEUS MISSISSIPPIENSIS		* * * * * * m	1	,	,		•	7	٠	
CYCLUPGIDA  CYCLOPCIC CPEPODITES  CYCLOPS SP  CYCLOPS EDAX	109	1 m m	8 K P	100	25	5 <b>4 4</b>	l o re	120	e mm NNA	182
TRCFCCVCLOPS PHASINUS MAUPLIT	1 & 0 m	r ŝ	2 =	5 0 2 2	1 0	= <i>\$</i>	• "	۱ ي	' <u>ē</u>	9 8 8
CLAPJCENA						•				
BCSPINA LCAGINSTRIS LUSPINGPSIS DE ITCASI CANTULAPINIA SO CANTULAPINIA SO CANTULAS SO CANTULAS SO DIAPHANNS SMA SIRACHYORUM HULCET DIOM AMAZGMICOM	001 111 ±N	F12 (21 21	2 6 1 E 1 E 1	φιφ 1 1 ;1	<u> </u>	0 1 # 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1	£13 1+1 +1	#50   #	100 100 E1	0 1 K 1 K 1

TABLE I-6a (cont.)

TANGMOMIC CLASSIFICATION	•	•	•			F ORGANI	MUNBER OF ORGANISMS AT STATION:	AT TOWE	(OR)	GANISA	(ORGANISMS/100 L)	
	-	~	n	٠	•	•	•		٠	•	•	•
• •									•			
AUTIFER	••	٠.	••	٠.	•		••	••	• •		••	
• • •	• • •			• • •	• • •		•••		• • •			
* ASCENDENA SP	100	1.55		***	2.00	· <del>·</del> ·	1 37	-	•••	1 4	٠,	13.5
		•	•	• •	•	•				ı		•
+ FEACHDAIN CALVITTIONS + FEACHDAIN FAVANATION	,,	.,	• • •		( )	11	• • •			. 1		£ 2
+ L. ACPIEND, GUADRICHATA	•	1	•	•	•			•				
+ beat Flowing SP		• • •	• • •	• • •		•	• • •	••	• •	4	~	,
+ (C11+11-1 5)				• •	10		= ' • •	٠.	••			
+ CONCONTROL S ON CONNIS	108	2551	+ 25H2	+++	141	303	131	.01	171	151	328	151
+ GASTADPUS SP + GASTACPUS FYFTIPUS + MARIAL CETTIS CO	<b>E</b> 1 1	10 I == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 == 10 =	***	•••	<b>9</b> 11	211	11	• • • ·	• • • •	•1	• • • •	. 5
HEATELA CCCLEARIS HERATELA SP	1908	2211	1336		86.9 8.9	1286	1741		 		317	0 1 1 0 1 1
• LEPACELLA SP • PONC 37 VL SP • PLEUSCHA HLOSON 1	121	2.3	****	****	111	110	118	••••	110	- 12		111
FCLYAFTHA VULUARIS SYNCHAFTA SP THICFOCERCA LONGISLTA	2, 2	50 P	200	****	* C E)	2734	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	····	211	ē 1 1	£'=	£11
THICKDCERA SIMILIS  THICKDCERCA SP  LINIORNIFILD MUTIFERA	191	ğ+1	<u> </u>	****	191	g''	+++ 	••••	••••	111		1 <u>m m</u>
			•	•	•			•	•		. •	

TABLE I-6a (cont.)

PAROMOMIC CLASSIFICATION (ORGANISMS AT STATION: (ORGANISMS/100) L)	• • • •			MUMBER .	MUMBER OF DREAVISMS AT STATION:	Ses A7 S	TAT ION:	(ORGANI	(ORGANISMS/100) L)	Ü
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TABLE 1-6b

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DIAPTEMUS MISSISSIPPIENSIS +	<u>:</u>	1		1	'				•	
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TABLE 1-6b (cont.)

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APPENDIX J
MACROINVERTEBRATES

1

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TABLE 3- 1a

LAKE SEMINULE WIN MANAGEMENT STUDY - BENTHIC MACPOINVERTEMPATES INDIANISWS/50 W)
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APLANESMYIA CINCTIPES	,	••	••	••	••		• •	• •	• •	12 •	1
AFFLARESAYTA MALLOCHI AFFLARESAYTA PARAJAUTA	11	••	••	11	••	••	••	••	••	• •	1 1
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TABLE J-la (cont.)

TAKBADMIC CLASSIFICATION				NUMBER	MUMBER OF BREALISMS AT STATION:	SMS AT ST		ا الروعية فعاروه	÷ 55	
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THICGRATHODES ALRICINEATUS		1	•	11	• •	•				٠,
CLEACHER ST	,			1	1	1	1	1	1	•
CECATCEOGORIJA" (NO LARVAL KEV)	,			1	1	1	,	,		
DEPTHENCE OF			•	• •	• •	11	3		<u>_</u> 1	11
POTANTIA FLAVA	,		. •				1			
CORMICULA WATTLENSIS	265	0022	+ 757	1470	6011	12.7	Ec.	2	14	230
Elerka SP	11					11	1 1			
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CLICOCHAETA FAMILY A	,	<u>.</u>		<u>.</u>	52	ί,	1			
DARAGUER CATS SP	1	1		• 1		1	•		1	1
POTABLE SP	11		• •		•	11	11	11		• •
TURICIDAR	1				••	•	,	F	<u>c</u>	236
TUGGELLA4 A	7 7 7	1 2 30	1 6	1 2	1042			11		
	2	551.2	5	3						
UNIDENTIFIED TRICOPTEGA	11	• •	++	• •	••	11	11	11	• •	<u> </u>
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TABLE J-1b

LAKE SEMINOLE WO MANAGEMENT STUDY - BENTHIC MACROINVERTEBRATES IDPOGNISMS/SO MY CORPS OF ENGINEERS (CONTRACT DACKDI-78-C-0101) PHASE 1, CYCLE 1
(April 17-21, 1978)

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TAXBADMIC CLASS					E PON	. <b>6</b>	ORGAN	NUMBER OF ORGANISHS AT STATION: (ORGANISMS/SQ	STATIC	) ;	RGANI	SHS	.SQ M)	
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						•								
+ CHI BONDMIDAE	••	••	• •		••	++		••	• •		••	• •		••
••	• •	••	••		••	<b>* *</b>		••	+ +		••	• •		••
••	••		••		٠.	+ 4		••	++			••		••
+ BRLADESEVIA CINCTIPRS		• • •	• • •	1 1		• • •	200	12	• •		• • •	• •	1 1	******
APLABESHVIA		• • •		•	•	• • •	•	•	• •	ı		• •	•	
	•	•	+3	4	50	•	12	+ 204	• •	•		• •	4.	
+ CLACCTANTIARSUS SP + CUEL NTANYPUS CONCINHUS	+ 280	••	12	1 <del>2</del>	131	••	1041	++	• •	1 1	••	• •	N 1	
+ COELCTANYPLS SCIPULANIS	• •	••	••	٠	••	<b>* *</b>	•	++	٠.	,	٠	• •	ı	•
+ COELDTANYPUS TO ICOLOD	••	٠.	+ + -	1 1	4 +	••	2 1	++	••		• •	• •	• •	******
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+ CICROTENDIPES LCBUS + DICENTENDIPER MODERATION	• •	•	**		• •	• •	1 1	+ 4	• •	L	• •	• •	٠	****
+ ECRECTA SP		• •	• • •	1	52	•	1	• • •	•	1		• •	•	
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+ EPOICOCLADIUS SP + GLYP107ENDIPES SP	11	••	• •	<b>0</b> I	••	<b>* *</b>	1 1	++	• •	11	11	• •	• •	
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+ PARAL AUTERBOOM ELLA NIGROHALTERALIS	••	••	••	21	• •	• •	01	+ 25	• •	11	• •	• •	1 + 5	
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+ POLYPEOILUM MALTERALE + FOLYPEOILUM METERALE	11	+ 280	••	• 1	+ 4	• •	1 4	\$01 •	• •			• •	<u>c</u> 1	
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PSECTAGGLACIUS	••	• •	++	١	••	• •	•	• •	٠.	•	٠	• •	•	••••••
PSECTRUCLACTUS SP	•		• •	١.	• •	• •		+ 4	٠.	• (	• •	• •	• •	
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TABLE J-1b (cont.)

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NON-CHI HONDWIDAE	• •	• -	• •	• •	. •	•		• •		• •
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TRICOPYTHONES ALBILINEATUS		·	1	· ·	1	1	,	,	,	•
CAMPFICAL CO	1 1	1	1 1	1	1	1	1	1 4	Ŧ.	
75 4.1.1			1							
CHRATOPOGONIDAT (N) LABVAL KOY)	•	٠,	71	1	1	1	1		( )	
CIACTIFUS ER	<u>.</u> .	51	φ. •	• • • •	<u> </u>	21		· <u>c</u>	٠,	
POTANTIA FLAVA	•			•					•	•
STREAM MANILENSES	* * *	. 4.7.			64	* *227 *		-	: ·	
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TABLE J-2a

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TABLE J-2b

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TABLE J-3a

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(September 25-27, 1978)

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(September 25-27, 1978)

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TABLE J-3b (cont.)

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TABLE J-4a

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CORPS OF ENGINEES (CONTRACT DACWDI-74-C-0101) PHASE 1. CYPLE 1
(April 17-21, 1978)

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East Bank NOTE:

Mid Channel West Bank

-A,B,C "Lake Type Station" Replicates

TABLE J-4a (cont.)

				NUMBER O	NUMBER OF SAGANISMS AT STATION:	MS AT SE		(ORGANISMS/SQ	MS/SQ M)	_
	Ŧ	-	2-16	B-2	# H-E	,		1	H-V	3-E
				:						
	•		• •	•	•		•	•	•	
	• •			• •	••		• •	••		
	••	• •	• •	••	• • 		• •	••	••	••
TRICORYTHODES ALBILINEATUS	1			,	1		• •	••	••	
CAMPFICMA SP	1	1	1	1	1	•				•
		• •	• •		· •	•		• •		١
CERATCHOGUNIDA" (NO LARVAL KEY)	11		• •	11	11	•	• •	• •		••
POTABATA EL AVA		1 1	•							•
DEFICULA MADILENSIS	224	195	523	* 050	545	472	+ 3215	745	0001	2131
CYFNELLUS SA FURERA SO	11	.,	••			11	• •	i I	••	••
	•		• •				•	•	•	•
			• •		11	11	1 (	• •		٠.
HERAGENIA SP	1	1		1	1	1				•
15UNINEA	1	,		1	,	1			• •	
HYALELLA AZTECA	1 1		1 1		1	1	1	•	•	• •
	1	,	• +	, ,		:	. +	• •	•	•
NARBUS SP	11	1 :	• •	1	1	1	1	•		•
DELIGNOMETA FAMILY A		,	60	202	11		1 AM	•	• •	
ARABGARATES SP	1	,		,	1	1	••	••	••	٠.
G5 51+3-41034		1	•		1	ł	i +	•		1
CTARTIA SD		,				1	•			٠.
UEIFICIDAE	,	,		1	1	1	1	•		ا .
TUMPELLAHIA TUMBELLAHIA B	1991	33,	HE GRAN	1363	' <del>-</del>		173	' ¥	••	1001
UNIDENTIFIED TRICODIERA	1	,		1	1	,	••	1	• •	
NICNIDAE	1	,	•		1	1				•
TOTAL NUMBER UF BRGANISMS	000	- 40	+ 4691	+ 5°007	97:2	<b>.</b>	500E	* *	40 <b>4</b> 1	323
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NOTE:

East Bank Mid Channel West Bank "Lake Type Station" Replicates

TABLE J-4b

LAKE SEMINDLE WO MANAGEMENT STUDY - RENTHIC MACPOINVEFTEBPATES ()PGANISMS/SO M)
CIRPS OF ENGINEERS (CONTRACT DACWOL-7A-C-0101) PHASE 1. CYCLE 1

(April 17-21, 1978)

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CHIBONOMIDAE			***	• • • • • • • • • • • • • • • • • • • •			***	***	**************************************	
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APLABESMVIA CINCTIDES  • APLABESMVIA MALLOCH  • APLAPESMVIA MALLOCH  • APLAPESMVIA MALLOCH  • APLAPESMVIA MALLOCH	111	111	111		111	111			111	111
CLASCTANYTANGUS SU + + CLASCTANYTANGUS SU + + + CORLOTANYTANGUS SU + + + + + + + + + + + + + + + + +	111	111	111	+ • • •	++++	••••	111			111
COFLETANYDUS SCAPILARIS + COFLETANYDUS TO ICOLOP	111	111	111	111		••••				111
NEAR CCRYNCHEURA SP "CRYPTOCHIRCHONUS" OF RCL.I  CRYPTOCHIRCHONSHUS FULVUS	111	111	111		111	•••	••••			111
DICKOTENDIPES LONGESTUS + CICKOTENDIPES WORESTUS + CIAFLLDIA SP	111	111	111	••••		111		••••		111
ENCECHIADACING SP + EPOTECLATUS SP + CALPOTECLATUS SP + + + + + + + + + + + + + + + + + +	111	111	110	••••	••••	****		••••	111	411
MARNISCHIA SP PARALAUTEPPUNIELLA NIGERHALTEFALIS FULYPEDILUM NEAB CONVICTUM	111	111	111	• • • •	••••	h''	••••	• • • •	111	111
FOLYPEDIUM HALTERALE + POLYPEDIUM HALTERALE + PROCLANIUS SP	111	111	111	••••	••••		••••		••••	<u>0</u> 1+
PSECTESCLADIUS SP A PSECTACIAS SP H HFECTANTASUS SP	111	111	111		••••	••••	••••	••••		111
FDE ACK 1 A SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 145.05 SP + TANY 1	911 911	<u>F</u> 1 1	ħII	••••	••••	••••	••••		111	111
TRIUELCS 3P	11	11	11			+++	•••	11	•••	• •

East Bank Mid Channel West Bank "Lake Type Station" Replicates

-E -W -A,B,C

NOTE:

J-15

TABLE J-4b (cont.)

					NUMER OF	E DECAM	DUCANTOMS AT STATEONS	TATEONE	(ORGANISMS/SQ	ISMS/8	€ E	
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•			••	• •	••		••	••	••	••	••	
TRICORYTHONES ALBILINEATUS			• •	+ +	1	,	• •		• •	• •	••	•
+ CAMPELCMA SP			• •		1	•		•	. •	•	•	
	,	'	٠.	++	,	,	•	• •	••	• •	••	
CEPATIFOGONIDAE (14) LARVAL REY)	11		• •		1 1	•	• •	•	•	• •	• •	• (
POTANTA FLAVA			• • •	• • •	11	1			•	• • •	• •	
+ COPRICULA MANILENSIS	46.7	129	;	• •	2243 +	95.3	۲۹ ۲۹	• •	• •	- • •	•	112
+ CYANELLUS SP	11		• •		1	•	• •	•	• •	• •	• •	•
			• •	• •	• •	•	• •		• •	• •	• •	1
+ GORDON SA	11		• •	••	+ • + •	1 1	• •	••	• •	••	• •	. •
+ PERALENTA SP	1	•	•			•	1			•	•	•
+ PIRUPINEA	1	١	• •	• •	1	•	1	••	••	••	••	•
+ PVALFILA AZTECA + MAICIOAE	11	. 1	••	••	11	• •	243	••	• •	••	1 4	1 5
	1		• •	• •	•	1	•	•	• •	•	••	
NEWAT TOA		•	• •		• •	1 1	• •	• •		• •	• •	
+ CLIGOCHAETA FAMILY A	,	•	++	+ •	• • <u>c</u>	6	•	••	٠,	••	••	•
+ PARABCYDACTIS SP	1 1	•	• •		1	1	•		• •	•	1	•
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• TUPCELLAFIA • TUFFILEARIA B	1252	12	+ 237	++	224	1 %	· <u>·</u>	••	••	••	••	
+ UNIDENTIFIED THICOPTERA	1		••	••	••	•	• •	••	••	• •	••	ı
+ UNICHIDAE	1	•		•	,	•	1	•		•	1	1
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TOTAL NUMBER OF ORGANISMS	1775	785	• • •	2072 +	2496 +	1024	• •	•••		٠.	220 .	707
NUMBER OF TAXA	n		•••	• • •	•••	m	•	•••	• • •	•••	***	7
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LAKE SEMINGLE WO MANAGEWINT STUDY - BENTHIC MACROINVERTERRATES (PPGANISMS/50 M)
CORPS OF ENGINEES (CONTRACT DACWOI-78-C-0101) PHASE I. CYCLF I
(April 17-21, 1978)

TAKGNOWIC CLASSIFICATION				z	NWO ER	JF ORGAN	ISMS AT SI	NUMBER OF ORGANISMS AT STATION: (ORGANISMS/SQ	ORGANI SI	MS/SQ M)	
. A-W + 9-A + 0-B + 9-C + 10-A + 10-C + 11-A + 11-D + 11-C	)  -  -	A-6 +	6-0	•	J-6	A-01 +	H-01 +	D-61 +	¥-11 •	u-11 +	y-11
CHIPDWDMID			• • • • •	•							•
+ ABLABESMY1A CINCTIPES + ABLABESMY1A MALLOCHI + AULAGESMY1A MALLOCHI + AULAGESMY1A PALAJANIA		<u>2</u> 11	•••••	• • • • • 0   1	111	111			111		111
CHECEDONS SP CLADOTANTHE SUS SP CLADOTANTHE SUS SP CLADOTANTHE SUS SP COFECTANTHE CONCINNUS	111	502	••••	111	111	263	+ 20¢ + 1°	<u> </u>	115	116	21 <u>e</u>
COELOTANYDUS SCAPULARIS COELOTANYDUS TRICOLOR CETANCALURA SP	111	••••	***	**** 711	111		••••		••••	111	111
* NE AF CCHYNCHEUFA SP * MCBYPTCCHIFCHYSUS" CF BCLL! * CRYPTCCHIFCHOWUS FULVUS	111	••••	••••	111	111	110	115	••••	••••	111	111
CICECTENDIPES LOGUS CICECTENDIPES MODESTUS CINFELDIA SP	111	••••	••••	• • • •	111	111	111				
+ ENDCCHIRD/4C4/5 <p +="" clyfiotens<="" clyfiotensing="" epoiccladius="" sp="" td=""><td>111</td><td></td><td>****</td><td>111</td><td>111</td><td>111</td><td>••••</td><td>••••</td><td>111</td><td>111</td><td></td></p>	111		****	111	111	111	••••	••••	111	111	
HARNISCHIA SP PAPALAUTEPPCUNIFLLA NIGROHALTEFALIS FOLYPFUILUM NEAR CONVICTUR	111	••••	••••	111	111	111		211			111
+ FOLYPEDILUM HALTEGALE + PHLYBEULLUM HEAM ILLINDENSE + PROCLADIUS SP	<b>5</b> 11		••••	•••• •••	111	111	••••	••••		116	115
+ PSECTRUCLADIUS SP A + FSECTROCLADIUS SP 9 + RMECTANYTAKSUS SP	111		• • • •		111					111	
* FOEACKIA SP * TANYTARSUS SP * TWIFFLUS JUCUMOUS	111		••••	••••	111	111	111				111
+ TRIBELCS SP + (TRIESCPELCPIA) SP		••••	• • • • •		11					1 1	••

TABLE J-4c (cont.)

•				NUMURA	NUMPER OF DREAMISMS AT		STATION: (	(ORGANISMS/SQ	MS/SQ M)	~
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TRICORYTHODES ALBILINEATUS	1				••		• •	. •	•	•
CAMPELEA SP	11	11	11	11						
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CERATOPOGONIDAE (NO LARVAL REY)	1	1	•	<u>-</u>	•	•	•	1	,	
BOT ARCO AND AND AND AND AND AND AND AND AND AND	11	11	<u>e</u> 1	۲E ++	••	••	••	<u>.</u>	ē ,	۲, ۱ ۰۰
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MARPUS SP	1	•	,	••		••	••	1	•	• •
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TOTAL MIMBER OF OPGANISMS	467	916	1300	1195	971	1178	• •	* * * * *	10:1	97.3
NUMBER OF TAXA	•	•		•	•	· ·	ec + +	••		
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TABLE J-4d

LAKE SEMINDLE WO MANAGEMENT STUDY - BENTHIC MACBOTHVERTEBRATES (INGANITMS/SQ W)
CORDS OF ENGINEERS (CONTRACT DACMO1-74-C-0101) PHASE 1. CYCLF 1
(April 17-21, 1978)

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SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SSP BA SS	• •	٠.	+ 265	' =	••		••	22
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206 + 161 + 1832 +	••	••	11	11	11	, ,		• •
206 + 168 + 1832 +	• •	. •	. • •				•	
	•	٠.		1 1	11	11	• •	
* 1 * 1 * 1	٠.	••	••	,		•	,	t
4 14 15 15 15 15 15 15 15 15 15 15 15 15 15	••		11	1 (	11	• •	11	
	••		• •	'		1	• •	1

TABLE J-4d (cont.)

					NUMBER	NUMBER OF OPGANISMS AT STATION: (ORGANISMS/SQ	SMS	3 AT ST	A 7 10M	<u>5</u>	RGANIS	MS/S	<b>€</b>	
		12-4	•	B-21	A-61	H-71	٠	13-C	£-01 •	ė.	:	•		1.0
**************************************		** *** *** * * * * * * * * * * * * * * *			•••	•••			::					
	• • •		• • •	• • •		• • •	• •			• •		• • •	• • •	
HOLDER HOLDE	• •		• • •	• •		• • •	• • •	•		• • •		• • •	• • •	
	• •		• • •	•		• •	<b>+</b> + ·			• •		• • •	• •	
TRICENTHODES ALBILINEATUS	, ,		• •	2	•	• •	• •	•		• •	60	• •	• •	,
CAMPELCNA SP Cyfaclea Sf	11	11		11	11	•••	• •	11		• • •	1.1	•••		1 1
CERATCEDGINIDA: (HO LARVAL KEY)	'	2	• •	,	1	••	٠.	£.	• •	••	t		• •	,
CHADROUS OF	ç I	***	٠.	- • 	<b>5</b> 1	<u>`</u>	* *	21	••	••	<u>.</u> 1	••	• • • • • • • • • • • • • • • • • • •	, ,
SISNUTIVE A SUCCESSION	2019	=	++	. 564	206	198	• •	243	-	• •	1	••	••	0.41
CYBRELLUS SP EUDEDA SP		11	• •	11	11	• •	+ +	11		••		• •	••	, ,
GC#PMCTOES SP	1	1	••	,	1	••	٠.	1		• •	•	٠.	••	,
CHAPFLY SP FFRACENIA SP	!!	11	٠.	1 2	1 5	++	٠.	11	<u>ن</u> د د	206 +	131	۰.	206 +	167
TRUD INFA	2		٠.	,	-	••	••	0		••	•	••	• •	1
HYALELLA AZTECA Mairiuae		785	• •	131	1 1	••	• •	. 1		• • • •		••	••	• •
		}	•			•	•			•			•	
	1 00		• •		· <u>c</u>	• •	• •	1 1	• •	••		• •		, 1
CLIGOCHAETA FAMILY A		١	٠.	,		••	• •	1	• •	••	•	٠.	••	•
PABARGYRACTIS SP	6	1	• • •	1	1	•	. •	1		1	٠	•		1
PUTARY A SP	21	11	• •		1 1	• •	• •	1 1	• •	• •	• •	• •		
TUE1F1C10AE	355	'n	••	1.87	112	+ + + +	٠.	213	۰۰	••	1	••	••	224
TURFELLATIA TURFELLATIA B	<u></u>	11	••	7 t		++	+ +	11		••	• •	••		11
UNICENTIFIED THICOPTERA	,	1	++	1		• •	+ +	,		• •	0.	••	••	١
UNICHIOAC		<u>-</u>	• •	,	1	••	••	1		+ + 1	,	••	••	•
		****	•	•	•	***	•		•	•		•	•	:
	• •		••	••		••	••			••		••	••	
TOTAL MUMBER OF DEGANISMS	4 4245	1582	• •	6431	E 0 E	****	••	1532		• 670	505	••	• • •	245
MUMMER OF TAXA	<u>°</u>	7	• •	2	2	• •	• •	2		<b>c</b>	τ	• •	<b>*</b> *	•

LAKE SEMINULE WE WALAGEMENT STUDY - BENTHIC MACROTHYFFFERRATES IN GARGENION COURS OF ENGINEERS (CONTRACT DACMOL-78-C-0101) PHASE 1. CYCLF 1

[April 17-21, 1978]

**************************************				NUMBER	OF OPGA	NUMBER OF OPGANISMS A" STATION: (UNGANISMS) SQ	STATIO	5 ::	DAIN LOF	(E )c/c	_
* * *	15-M	15-4	1-41	H-01 +	+ 1.5-4	+ 17-4	٠	1 7-11		7 - 1	
		******						::			
CHIRCHNINGTONE	•			• • • • •	• • • • •	• • • • •	• • • • •	• • • • •	. = • • •	••••	• • • • •
ARLABESAVTA CTUCTIDES ABLAPESAVTA MALLIGHT AVLANCSAVTA DARAJANTA	C   1	111	<u>0</u> 11	1 25	••••		****	111	111	111	111
CPTEDUCAUS SP CLADCTANYTAUSUS SD COFLCTANYTAUS CORTUNUS	112.13	112	161	61.7 1.9	\$ <del>-1</del>	••••	• • • •	,,,,	111	111	++++
COELCTANYPUS SCAPUR ARIS COELOTANYPUS TRICILUR COEMACNIUM SP	111	111	112	111			• • • •	111	111	111	••••
NEAG CREWARNINGS SP #CHYBTOCHTENNINGS CF BOLLT	111	,,,	- 1 - 1 - 2 - 2	26211	••••		• • • •		111		••••
PICECTEMUIPES CONS PICECTEMUIPES MUDESTUS FINFELDIA SP	111	,,,,	111	111			• • • •	111	111	111	••••
ENCCCH IRONAMS SP + + CALCACLAD 103 SP + + + + + + + + + + + + + + + + + +	111	111	•••	m 1 1	****	••••		111	111		
MANNISCHIA SP PABALACTERNERMELLA NIGSONALTERALIS F.LYPEOILUM NEAR CINVICTUM	111	<u> </u>	111	151		++++	••••	111	111	111	• • • •
FOLVE-11.UM HALTERALE FOLVE-11.UM WEAR ILLINGENSE PHOCLADIUS SP	115			318	۱۱۴	• • • •		111	111	111	
PSECTACCLADIUS SP A + PSECTACCLADIUS SP R + FRECTANTAFFUS SP + + + + + + + + + + + + + + + + + +	111	111					* * * *	111	111	111	
FORECKTA SP TANYTALSUR SP THIBLEOS JUGUNOUS	111	111		### ###	••••			111	111	1 1 1	
TRIPELCS SP ++	11	11	12			• • • •	• • •	• • • •	11		• • • •

TABLE J-4e (cont.)

TOW-CHIPDINGHIDAL	# · · · · · · · · · · · · · · · · · · ·									
IDAL	•	• ••••		16-M	3-41	H-41	H-4 • 14-41	1-11	7-11	
INW-CHIPINNMIDAL  S ALBILINEATUS	•••	: •	::•						:	
S ALBILINEATUS	•	••	••	••	•					• • •
S ALBILINEATUS +	••	• • •	•••	•••			• • •	• • •	• • •	• •
•	• •	• •	•	•	•			•		••
+ CARECLEA SD		• • ·	• •	• •		1 1				••
• •	••	• •	••	• • !		1		_		1
+ CERATOROGONIDAT (NO LARVAL KEY) + CHACHIJUUS 60 + 0	••	1 2	1 1	12	1,	1 1	11	1 1		
	•	•		; 1			1	2	, ,	17
+ CORPICIA MANILENSIS + 224	• • •		7234	16.9	292	333	2	E .	2617	• • • •
• •	• •	• •	• • • •		• • • •	1 1				+ <b>+</b>
• CCMPHQIUES SP	••	••	••	• •	1	i	1	1	,	••
+ CERPTON SD + C17	••	1 2	••	• •	187	. !	11	11	11	• •
•	•	•	•	•	•					• •
+ MYALELLA AZTECA +	• • • •	••	• •	• •	11	11	11			11
• •	••	- + -	+ HS+1	131 +	0	67.5	ı	6	•	•
+ NAPPUS SP	•	• •	37	•	'	1	1	,	,	'
TA FAMILY A	••	+ + <u>-</u> 1	• •	• + <u>•</u> •		11	11	11	11	
PAPABGYGACTIS SP	••	• •	••	••	••	1	,	,	1	••
••	• • • •	<b>+ +</b>	• • • •	• •	11	11	11	11	, ,	1 1
••	• •	+ + C		108	240	1		2		
+ 106:FLL4614 + 1086:ELL461A B	••	••	• •	• •	11	11	11	. 1 1		
+ UNIDENTIFIED THICOPTERA	••	••	• •	• •	1	1	1	1		. • •
••		••	••	••	1		1	1		•
**************************************		•		•	***					
•	••	••	••	••	••	•				
+ TOTAL MAMBEN OF OPGANISMS + 1159	• •	583 +	+ 5986	3291	1253 +	154	<u>c</u>	202	2617	<u>.</u>
+ MAINTED (IF TAKA +	• •		12 +	· · ·	2	m	-	· • •	-	~
	٠	٠	•	•	•	•	•	•	•	• •

TABLE J-4f

LAKE SEWINGLE WO MANAGEMENT STUDY - BENTHIC MACROINVERTEBRATES (DRGANISMS/SO M) Cotids of engineers (contract dackol-78-5-0101) Phase I. Cycle I

(April 17-21, 1978)

FAXENCMIC CLASSIFICATION				NUMBER OF	F OPGANI	SHS AT ST	۷۱ ((	ORGANIS	NUMPER OF OPGANISMS AT STATIOM: (ORGANISMS/SQ M)	_
	+ 19-E	¥-01	#-61 +	******	****					
**************************************	•••			• • • • • • • • • • • • • • • • • • • •	***	• • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •		
CHISONDMIDAE	••		••	• • •			• • •	• • •	•••	• • •
	•••	• • •	•••	• • •		•	• • •	• • •		
ARLARESMYIA CINCTIDES ARLAPESMYIA MALLOCHI AFLAHESMYIA PARAJANTA	••••		••••	****	***	***			* * * * * * * * * * * * * * * * * * *	
CHIRENDWIS SP CLADDTANYTAKSUS SP CUELUTANYPUS CONCIENUS	1 m 1		<u>0</u> +1	****		* ; *				
COFLOTANYDUS SCADULARIS COFLUTANYOUS THICALOR CCRENCHEUPA SP	••••	111	111		***	2 7 8 2 7 8 2 7 8 2 8 8 2 1 8 2 4 8	* # # # # # # # # # # # # # # # # #		# # # # # # # # # # # # # # # # # # #	7 8 9
NEAG CCYVNENEURA SP #CRYDTOCHIEGNIMUS# CF ROLLI CHYDTCCHIPGNIALS FULVUS	• • • •				***	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *	***		
ELCROTEMOTEFS LOBUS DICKTTEMOTES MODESTUS FINFELUIA SP	••••	111		****	****	***	* * * * * * * * * * * * * * * * * * *		* * * * * * * * * * * * * * * * * * * *	
ENCCCHIACHONUS SP FUGICCLADIUS SP GLYMTOTENDIUS SP	++++	111		* * * * * * * * * * * * * * * * * * *	***	# # E # # # # # # # # E # # E	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *
HARNISCHIA SP PAGALAUTERNENJELLA NIGRIHALTERALIS PILYPELILUM NIAH GINVICTUM	116	111				4 4 4				
POLYPEDILUM MALTEPALE POLYPELILUM M. AP. ILLINDENSF PHOCLACTUS SP	• • • •		€11 6			* * * *	# 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	• • • •	* * * * * * * * * * * * * * * * * * *	
PSECTENCLADIUS SP A PSECTEUCLADIUS SP R RPECTANTIASUS SP		111								
RUEACKIA SP Tamytaisus SP Toleflis Jucundus						* ; t		7		
1519ELCS SP (Tr.1550PELCP1A) SP	<u></u>			* * * * * * * * * * * * * * * * * * *	* 5 * 6 * 7 * 7 * 7 * 1	# C C C C C C C C C C C C C C C C C C C			4 6 6 6 7 1 1 5	
	• •	• •					•	• •	* *	• •

6 or 6 Sound					
	END DATE FILWED TO:81				

TABLE J-4f (cont.)

					1	DREANISMS AT ST	\	1	IN THE SERVICE TANKS AND IN	_
	10-E	N-C1	n-01 +		•					
	•		. *		• •			• •	•	
NON-CHIRDNOMIDAL	•		• •	•	•		•	•	•	•
	•		• •	••	• •		••	••	• •	• •
	• •		• •		•		•	• •	• •	• •
THICORYTHODES ALBILINEATUS	10	,		******	* *******		********	*******	******	••••••
CARPINE ST	• • • • • • • • • • • • • • • • • • •		••			***	****	****		
	•		•							
CREATCROCKTOAM (NO LABVAL REV)	11	11	• •					******		
DOTAMATA FLAME			1							
	155	22.	•	•	********					•
CYANELLUS SP		1								****
UDFRA SP	1	,	1	*******				,,,,,,,,,		*******
GC STFC LOFFS SP	••	1	•		•	******				•
COMPHUS SO	•	1	1				********		******	
FFREGENIA SO						*******				•
F IGUD INE A	1	1	,			*******	*******		••••••	******
YALFILA AZTECA	1						******		******	••••
MAILICAE	181 +	•	,	******	******			*****		•
NAGFUS SP	1	1	,			*******			• • • • • • • •	*****
7	•							4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
4 A11 MAL 4 A14 A14 A14 A14 A14 A14 A14 A14 A14 A	. •	,	,							
PARAGETACTIS SP	1	1	j						• • • • • • •	
		1	,			*****				
	• •		,							
UFIFICIDAE	+ 168 +		121	•				******		******
TURELLADIA Tubesi acta a	• •	11	• •		******	****				
	•		•				•			
UNICENTIFIED TRICOPTERA	1	•					*******			
MICAL	•					4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			• • • • • • • • • • • • • • • • • • • •	*****
				•					• •	• •
				**************************************						
TOTAL NUMBER OF DRGANISMS	915	374	262	•	•	*****	******	*****	•••••	•
	•		•	•					•	•
MUNDED OF TAXA	* * *	<b>-</b>	•		*******				•••••	•
				•						

TABLE J-5a

LAKE SEMINDLE WO MANAGEMENT STUDY - BENTHIC MACPOINVEGTEDPATES (196ANISMS/SO M)
CORNS OF ENGINEERS (COUTSACT DACWOI-7P-5-0101) MASE 1, FYCLE 3

(July 17-20, 1978)

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CVENFILUS SP ELPICIOSE (NO LARVAL KEV) CLAFAUS SP	111	111	111	111	111	111	111	111	111	111
MERACENIA SP Minilasa Minila azteca	111	111	111	111	111	111	111	111	111	111
LEPTCE PIDAE Natoldae Nakrus SP	111	111	111	111	111	111	185	111	15,1	151
CLIGCCFAGTA FAMILY A PHYLCCFWIAGNUS SP	111	111	111	111	111	111	111	111	111	111
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TABLE J-5b

LAKE SEMINJLE WO MANAGEMENT STUDY - RENTHIC MACROINVERTERRATES EDEGANISYSO W)
COLES OF ENGINEERS ECONTRACT DACMOI-78-C-01011 PHASE I. CYCLE 3

(July 17-20, 1978)

TAXCADMIC CLASSIFICATION	• • • •			haanne	NUMBER OF OPGANISMS AT STATIONS	TS AR SHE		(ORGANISMS/SQ	(M DS/SMS	_
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TABLE J-5b (cont.)

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CHADBORUS SP. POTAMYIA FLAVA.	115	2542	2 10g s	2374	1234	5 kg	37	110	37.6	116
CYBMELLUS SP EMPLOTORE (NO LARVAL REV) GCWPNLE SP	111	111	,,,	111	111	111	111	111	111	111
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LEPTOCERIDAE NATITIEME NAMELS SP	101	'='	386	729	111	151	1 <u>c</u> 1	111	111	111
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TABLE J-5c

LAVE SEWINDLE WO WANAGEMENT STUDY — DENTHIC WACROINVERTEBRATES (DIGALISMESSO W) CIRDS OF ENGINEERS (CONTRACT DACKOI-PA-C-0101) BHAST 1. CYCLE 3 (July 17-20, 1978)

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ACARI PRICORYHODES ALBILINGATUS CERATORIGINIDAE [NO LÄRVÄL KEY]	111	111	111	111	111	+11	111	111	111	111
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CVENELLUS SP E-PICIONE (NO LARVAL KEV) GLWFMLS SP	112	111	112	111	111	111		111	<u></u>	••••
PERAGENIA SU HIPUCIANA ATTECA	611	211	111	111	<u> </u>	121	<u>.</u>	111	111	
LEPTCENIDAE Natificae Nagels Sp	<u></u>	121	111	111	111	<u>,</u> 11	111	ŗ!!	111	
NEMBTOCA CLIGOCHAETA FAMILY A PHYLCENTGODS SP	211	111	111	111	111	<u>,</u>	112	111	111	
GTSMFNEWA SP TUFIFICICAF TUFFELAFIA	166	771	111	322 E	I DE I	121	161	1 7 1	13.1	100
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TABLE J-5d

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TAKE SEMINOLF BO MANAGEMENT STUDY - BENTHIC MACGOTINVERTEBRATES CHOGARISMS/50 W)
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(JULY 17-20, 1978)

TAXCACMIC CLASSIFICATION	••••			RESTRON	UF ORGANI	ORGANISMS AT STATION:	0) ::::::.	(ORGANISMS/SQ	(N DS/SH	
	4-11	6-11 +	4 11-c	+ 12-E	+ 12-M	+ 12-#	4-E1 +	+ 1.3-4	13-C	j-91
• • • • • • • • • • • • • • • • • • •		* * * * * * * * * * * * * * * * * * *			• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • •
ABLABESWYIA CINCTIPES . ARLARESWYIA MALLOCHI AFLABESWYIA PACAJANTA	111	111	111	111	111	111	111	111	111	% <u>c</u> +
HEAR CHERNCYSKITA OHUICUS CHIRCNEWUS SP CLAPUTANYTAFEUS SP	111	111		111			121	151		121
COELCTANY DES CONCTANUS COELCTANY DES TO ICALOR CENTRENERS SP	<u></u>	<u> </u>	£''	211	211		251	<u> </u>	111	y 1 1
NEAR CESTACHEGISA SP NEAR CESTACHEGISA SP 8 "CHYPTOCHEGININGS" CF ROLLI	111	111		111	111	111		111	111	111
CHURTICHI JORGANIS FULVUS CONFIGE JORGENA SA LICATENCIDES JORGENUS	111	( ) (	111	111	111	111	••••	211	111	212
FINERLOIA SP EMPICCICLADIUS SP GLYPICIENDIFES SP	111	. 1 1 1	111	111	••••	111	121		111	212
MICECCHIFONCAUS SP PARACEIANGAUS HISTALATUS PAGACLADDHELMA SP	111	111	111	101			111		111	211
PAPACLADIDELMA SP A PARALAUTE PLONIELLA NIGROHALTERALIS PARATENDIDES "CONNECTENS" (A)	111	111	111	111	••••	111	111	;11	111	618
PHAFACOSICTER SP FILEYPFOLLUM NERO CONVICTUM FOLEYFECTLUM MALTERALE					116	ئ _{ا د} د	111			112
PPOCLADIUS SP PSECTECLADIUS SP PSECDCEMIMERSMUS SP		111	211	<u></u>		112	<u>.</u>	<u>.</u>	~ · · ·	۳ · ا
FPETTANTAGUS SP FORAKLA SP STENDELLINA SP	111	111	111	111	111		f 1 1	111	111	1++

TAKCACAT CLAS. LP ICA		• • • • • • • • • • • • • • • • • • • •	•	• • · · · · · · · · · · · · · · · · · ·	175 H 245 G C 4	:: :	) :: : : : : : : : : : : : : : : : : :	(ORGANISMS/SQ		£
	٧-١١	1-11	)-II-	12-21	*-7-	. 12-4	4-1 ·	-		
Castantant	• • • •				•••	• • • •	• • • •	• • • •	• • • •	• • • •
TANYBUS STELLATUS + TANYTAKSUS SP + RENCCHIEFUS SP	111	<u>c</u> 11	111	111	111	111	111	111	111	111
UNDESCRIPTO CHIPMONINI A	1	,	1	1		••••		,	1	ŕ
**************************************	•				•	•	•	•	•	•
* * AGAG! * TRICORYTHOOES, ALMILINEATUS * CSHATOPJUNIOSE (NO LARVAL KEY)	111	111	111	111	111		111	111	111	111
	3611	279	<u> </u>	117	1   15	111	E 1 1	145.37 1.00	= ' 1	115
CVANELLUS SP + EMPIDITAE (NO LABVAL KEV) • (CMPHUS SA	111	111	111	111	111	111	115	111		111
+ PERAGENIA SP + MIPUCINZA + MYALELLA AZTECA	h''	121	111	1112	116	111	#11	4£.	211	<u>-</u> 15
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MEMATODA CLIGECHAFTA FAMILY A PMYLECI NTODOUS "P	111	<u>5</u> 11	111	<u>e</u> i:	111	111	g I I	111	, , , ,	111
STENCHEWA SD TUBIFICATION TUGHELLAFIA	1383	{ m   1 2v	1178	101	100	1 1 1	16:01	15.1	121	115
• TURFELLAFIA B		1	1	1	1	,	,	,	'	1
•	3) <b>4</b>	-	5 4 9 1	\$7.¢	er en	e m	4 0	<b>6</b> 0%5	<u>.</u>	2037
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LAKE SFWINDLE NO WANAGEMENT STUDY - NEWTHIC WACGOINVEFTERPATES (INGANESYSO H)
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(July 17-20, 1978)

######################################	TAXCACMIC CLASSIFICATION	•••			NUMPEP	ř	ORGANISMS AT	STATION:	: NC .	(ORGANISMS/SQ	ISMS		Ê	
HALTSGALIS  10  11  12  13  14  14  15  16  16  17  18  18  18  18  18  18  18  18  18		4 - 4 - 4	A-41	+ 15-F				•	14-41			1.7-M	17-	*
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	HINDUCACE SP	1 0	1 5	••		• •	• •	• •	۰ -	••	• •	1 1		1 1
HALTZGALIS  168  467  75  169  170  170  170  170  170  170  170  17	LADCTANTANSUS SP	•	. 1	1	1	•	•	•	š		•	7	=	9
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######################################	OFLOTALVOLS TOTCOLDE	+ 56		•	•	•	•	•	•	•	•	• 5	•	١;
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######################################	EAR CCRYNCHEURA SP	•	1	+	•	•	•	•	<u>-</u>		•	<u>-</u>		•
HALTERALIS  137  140  141  141  141  141  141  141  14	CRAPTICHISTICAMUS* CF ROLL!	••			• •	• •		• •	۱ ۱		• •		•	m m
HALTERALIS  137  148  148  148  148  148  148  148  14	RAPTECHIBIN INUS FULVUS	**		++	• •	<b>6</b> F	• •	<b>+ +</b>	:	••	••	;	-	3
HALTZDALIS  137  148  148  148  148  148  148  148  14	AYPTOLIADORUMA SP	•	1	•	1	1	•	•	<b>,</b> '	•	•	•	•	•
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HALTERALIS  137  140  150  150  150  150  150  150  150	LVFTCT-NDIPES SP		• •	<u>.</u> 1	• •	• •	• •	• • 		• •	• •			
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MANTEGALIS	AFACLADOUFLMA SP A			• •	• •	• •	• •	• •	٠	••	••	٠		ı
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TABLE J-5f

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TABLE J-5f (cont.)

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TABLE J-6a

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(September 25-27, 1978)

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TABLE J-6f

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(September 25-27, 1978)

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TABLE J-7

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APPENDIX K

CORBICULA TISSUE ANALYSIS RESULTS

LIST OF TABLES

TABLE

DESCRIPTION

PAGE NO.

K-1

Corbicula Tissue Analysis Results, Cycle 4 August 14-17, 1978 K-1

** LAKE SEMINULE WATER QUALITY MANAGEMENT STUDY **
CHRPS OF ENGINEERS (CONTRACT DACWOI-78-C-0101) PHASE 1. CYCLE *
CORBICULA TISSUE ANALYSIS RESULTS

TABLE K-1a

PARAMETER NAME (UNITS)	STATION 08 8/16/78	STATION 12 8/15/78	STATION 15 8/14/78	STATION 16 8/14/78
PHYSICAL & CHEMICAL DATA		•		
PHYSICAL DATA				
MOISTURE CONTENT (% TOTAL WT)	93.2	90.3	92.5	90.6
HEAVY METALS				
* ARSENIC (MG ASZKG BET WT) * CADMIUM (MG CDZKG BET WT) * CHRUMIUM (MG CHZKG BET BT)	0.51 0.47 2.67	7.66 7.69	0.72 0.57 4.6)	0.69 0.51
* LCAD (MG PUZKG WET WT) * MERCURY (MG MGZKG WET WT) * SELFNIUM (MG SEZKG WET WT)	6.50 0.078 0.17	4.53 0.094 0.15	0.110 0.23	5.50 0.130 0.18
* ZINC (NG ZNZKG WET WT)	14.00	17.00	14.00	10.00
CHURINATED HYDROCARBONS			•	
ALDRIN (UG/KG WET WT) BHC-ALPHA ISOMER (UG/KG WET WT) BHC-BETA ISOMER (UG/KG WET WT)		< 0.2 < 0.2 < 0.2		~- ~-
* BHC-GAM4A 15DMER (UG/KG WET NT) * CHLURDANL (UG/KG WET NT) * P.P* DJD (UG/KG NET NT)	===	< 2.1 23.5 < 2.5		
P.P. DDE (UGZKG WET WT) C.P. DDT (UGZKG WET WT) DDT (UGZKG WET WT)		< 0.5 < 0.5 < 0.5		_£
DILLDRIN (UG/KG WET WT) FINDUSULFAN SULFATE (UG/KG WET WT) HCPTACHLOR (UG/KG WCT WT)	===	< 0.5 < 0.2		
HEPTACHLOR FPOXIDE (UGZKG WET WT) MCTHOXYCHLOR (UGZKG WET WT) MIREX (UGZKG WET WT)		< 0.2 < 5.0 < 5.		
PCD (UG/KG WET WT) PENTACHLUP(PHENUL (UG/KG WET WT) TOXAPHENE (UG/KG WET WT)		< 25. < 5. < 5.	·	

TABLE K-1b

PARAMETER NAME (UNITS)	STATION 19 8/16/78
PHYSICAL & CHEMICAL DATA	
PHYSICAL DATA	
MOISTURE CONTENT (X TOTAL BT)	91.2
HEAVY METALS	
ALSENIC (MG ASZAG WET WT) CADMIUM (MG CDZAG WET WT) CHROMIUM (MG CAZAG WET WT)	0.43 0.42 0.46
* LEAD (MG PUZKU DRY WT) * MERCURY (MS HGZKS WET WT) * STLENIUM (MG STZKG WET WT)	4.49 0.120 0.10
1 ZINC (MG ZNZKG WET NT)	11.20
CHLORINATED HYDROCARBONS	
* ALDREN (UGUKG WCT WT) * CHC-ALPHA ISOMEN (UGUKG WET WT) * CHC-SETA ISOMER (UGUKG WET WT)	< 0.2 < 0.2 < 0.2
* CHC-GAMMA ISOMER (UG/KG WET WT) * CHCUICDANE (UG/KG WET WT) * Part DCD (UG/KG WET WT) * Part DCD (UG/KG WET WT)	< 0.1 40.0 < 0.5
* P.P. DDE (UGAKO MET MT) * C.P. DDI (UGAKO MET MI) * C.P. DDI (UGAKO MET MI)	< 0.5 < 0.5 < 0.5
* DIELDMIN (NUZYG WET WT) * : NUMBULFAN SULFATE (UGZKG WET WT) * HUMTACHUM (UGZKG WET WT) *	< 0.5 10. < 0.2
* HEPTACHEOD EPCXIDE (UGZKG WET WT) * METHOXYCHEOD (UGZKG WET WT) * MIREX (UGZKG WET WT)	< 0.2 < 5.0 < 5.
PICE (UGZKG VET NT) PENTACHEDROPHENDE (UGZKG WET NT) TEXAPHENE (UGZKG WET NT)	< 25. < 5. < 5.

APPENDIX L
SEDIMENT SAMPLING RESULTS

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L-1 (a-s)

Sediment Gradation Curves, Cycle 4, August 14-17, 1978 L-11

TABLE L-1a

** LAKE SEMINDLE WATER QUALITY MANAGEMENT STUDY **
CHIPPS OF ENGINEERS (CONTRACT DACKOT-70-C-0101) PHAGE 1. CYCLE 4

SEDIMENT SAMPLING RESULTS

PARAMETER NAME (UNITS)	STATI UN 01 8/17/74	STATION 02 9/17/76	STATION 93 9717/78	STATIO1 04 5/17/78
PHYSICAL & CHEMICAL DATA	•			•
PHYSICAL DATA				•
LCSS ON IGNITION (MG/KG DRY WT) MOISTURE CONTENT (% TOTAL DRY WT)	2500	1600	3200	2400
	18.30	19.30	18.40	16.20
MISCELLANEOUS CHEMICAL DATA	•			•
* CARBON, ORGANIC (GM C/KG DRY WT) * NITROGEN, TOTAL KJELDAHL (MG N/KG) * OIL C GREASE (MG/KG DRY WT)	0.544	0.530	1.690	0.797
	34.	35.	52.	117.
	< 50.	< 50.	< 50.	< 50.
PHOSPHURUS, TOTAL (MG P/KG DRY WT)	8.77	25.50	19.20	46.20
HEAVY METALS	•		:	
ARSENIC (MG AS/KG DRY WT) CADMIUM (MG CD/KG DRY WT) CHROMIUM (MG CR/KG DRY WT)	0.02	0.04	0.04	0.14
	<0.50	<0.50	<0.50	<0.50
	2.75	2.79	2.39	<1.20
CCPPER (MG CU/KG DRY WT) IRON (MG FE/KG DRY WT) LEAD (MG PB/KG DRY WT)	<0.60	<0.60	<0.60	<0.60
	1770.	1620.	1470.	1480.
	<0.50	<0.50	<0.50	<0.50
MANGANESE (MG MN/KG DRY WT) MERCURY (MG HG/ DRY WT) NICKEL (MG NI/KG DRY WT)	118.0	84.4	51.7	67.4
	0.07	0.03	0.04	0.04
	0.73	0.56	<0.40	<0.40
ZINC (MG ZN/KG DRY WT)	3.42	5.08	3.55	3.88
CHLORINATED HYDROCARBONS	•			
ALDRIN (UG/KG DRY WT) ARDCLOR 1242 (UG/KG DRY WT) AROCLOR 1254 (UG/KG DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
	< 0.5	< 0.5	< 0.5	< 0.5
	< 0.5	< 0.5	< 0.5	< 0.5
* AROCLOR 1260 (UG/KG DRY WT) * BHC-ALPHA ISOMER (UG/KG DRY WT) * BHC-BETA ISOMER (UG/KG DRY WT)	103.0	213.0 < 0.1 < 0.1	419.0 < 0.1 < 0.1	93.0 < 0.1 < 0.1
* BHC-GAMMA ISOMER (UG/KG DRY WT) * CHLORDANE (UG/KG DRY WT) * 2,4 D (UG/KG DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
	< 0.5	< 0.5	< 0.5	< 0.5
	22.	< 2.	569.	< 2.
P.P' DDD (UG/KG DEY WT) P.P' DDE (UG/KG DRY WT) O.P' DDT (UG/KG DRY WT)	< 0.2	< 0.2	< 0.2	< 0.2
	< 0.1	< 0.1	< 0.1	< 0.1
	< 0.2	< 0.2	< 0.2	< 0.2
P.P' DDT (UG/KG DRY WT) DIELDRIN (UG/KG DRY WT) ENDOTHOL (UG/KG DRY WT)	< 0.2	< 0.2	< 0.2	< 0.2
	< 3.1	< 0.1	< 0.1	< 0.1
	< 0.5	< 0.5	< 0.5	< 0.5
PENDRIN (UG/KG DRY WT)  ENDRIN ALDEHYDE (UG/KG DRY WT)  GLYPHOSPHATE (UG/KG DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
	< 0.1	< 0.1	< 0.1	< 0.1
	< 1.0	< 1.0	< 1.0	< 1.0
HEPTACHLOR (UG/KG DRY WT) HEPTACHLOR EPOXIDE (UG/KG DRY WT) HETHOXYCHLOR (UG/KG DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
	< 0.1	< 0.1	< 0.1	< 0.1
	< 0.2	< 0.2	< 0.2	< 0.2
MIREX (UG/KG DRY WT) PENTACHLOROPHENOL (UG/KG DRY WT) TOXAPHENE (UG/KG DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
	< 0.5	< 0.5	< 0.5	< 0.5
	< 0.5	< 0.5	< 0.5	< 0.5

TABLE L-1b

PARAMETER NAME (UNITS)	STATION (5 8/17/78	ST AT 10N 00 8/17/78	STAT1UN 37 8/16/78	STATION 8/16/73
PHYSICAL & CHEMICAL DATA				,
PHYSICAL DATA		,		
LOSS DN IGNITION (MG/KG DRY ST) MOISTURE CONTENT (% TOTAL DRY ST)	1500 17.50	1500 17.70	9900	12800
MISCELLANEOUS CHEMICAL DATA		) 1	•	
· CARBON, ORGANIC (GM C/KG DRY WT) · NITROGEN, TOTAL KJELDAHL (MG N/KG) · DIL & GREASE (MG/KG DRY WT)	0.689 60. < 50.	0.592 51. < 50.	1.833 52. 53.	2.557 287. 50.
PHOSPHORUS. TOTAL (MG P/KG DRY WT)	15.70	16.90	40.50	86.50
HEAVY METALS			•	
· ARSENIC (MG AS/KG DRY WT) · CADWIUM (MG CD/KG DRY WT) · CHRUMIUM (MG CR/KG DRY WT)	0.04 <0.50 <1.20	0.12 <0.50 2.42	0.02 <0.50 5.02	0.02 <0.50 <1.20
CCPPER (MG CU/KG DRY BT) IRCN (MG FE/KG DPY BT) LEAD (MG PB/KG DRY WT)	<0.50 1470. <0.50	<0.60 2060 <0.50	3.10 5890. <0.50	12.00 2970. <0.50
MANGAMESE (MG MN/KG DRY WT) MEPCURY (MG HG/DRY WT) NICKEL (MG NI/KG DRY WT)	55.5 0.04 <0.40	141.0 0.06 <0.40	168.0 0.06 2.11	741.0 0.09 9.34
ZINC (MG ZN/KG DRY WT)	4.24	4.86	11.20	18.70
CHLORINATED HYDROCARBONS	•	•	•	:
ALDRIN (UG/KG DRY WT) APUCLOR 1242 (UG/KG DRY WT) AHOCLOR 1254 (UG/KG DRY WT)	< 0.1 < 0.5 < 0.5	< 0.1 < 0.5 < 0.5	< 0.1 < 0.5 38.7	< 0.1 < 0.5 50.0
* ANUCLOR 1200 (UG/KG DRY NT) * BHC-ALPHA ISOMER (UG/KG DRY NT) * BHC-BETA ISOMER (UG/KG DRY NT)	56.8 < 0.1 < 0.1	219.0 . < 0.1 . < 0.1	< 0.5 < 0.1 < 0.1	136.0 4 < 0.1 5 < 0.1
BHC-GAMMA ISOMER (UG/KG DPY WT) CHLURDANE (UG/KG DRY WT) 2,4 D (UG/KG DRY WT)	< 0.1 < 0.5 < 2.	< 0.1 < 0.5 113.	< 0.1 < 0.5 < 2.	< 0.1 < 0.5 < 2.
P.P. DDD (UG/KG DRY WT) P.P. DDE (UG/KG DRY WT) D.P. DDT (UG/KG DPY WT)	<pre> &lt; 0.2   &lt; 0.1   &lt; 0.2</pre>	< 0.2 < 0.1 < 0.2	< 0.2 < 0.1 < 0.2	< 0.2 < 0.1 < 0.2
P.P. DDT (UG/KG DRY WT) DICLORIN (UG/KG DRY WT) CHOOTHOL (UG/KG DRY WT)	< 0.2 < 0.1 < 0.5	< 0.2 < 0.1 < 0.5	< 0.2 < 0.1 < 0.5	< 0.2 < 0.1 < 0.5
* ENDRIN (UG/KG DRY WT) * ENDRIN ALDEHYDE (UG/KG DRY WT) * GLYPHOSPHATE (UG/KG DRY WT)	<pre></pre>	< 0.1 < 0.1 < 1.0	< 0.1 < 0.1 < 1.0	< 3.1 < 2.1 < 1.0
HEPTACHLOP (UG/KG DRY WT) HEPTACHLOP EPOXIDE (UG/KG DRY WT) METHOXYCHLOR (UG/KG DRY WT)	< 0.1	< 0.1 < 0.1 < 0.2	< 0.1 < 0.1 < 0.2	< 0.1 < 0.1 < 0.2
MIREX (UG/KG DRY WT) PENTACHLORIPHENUL (UG/KG DRY WT) TOXAPHENE (UG/KG DRY WT)	<pre> &lt; 0.1  &lt; 0.5  &lt; 0.5 </pre>	< 0.1 < 0.5 < 0.5	< 0.1 < 0.5 < 0.5	< 0.1 < 0.5 < 0.5

TABLE L-1c

PARAMETER NAME (UNITS)	29	1 10	11	STATION 12
	8/16/78	8/15/78	8/16/78	8/15/78
PHYSICAL & CHEMICAL DATA				•
PHYSICAL DATA				,
LOSS ON IGNITION (MG/KG DRY WT) MOISTURE CONTENT (% TOTAL DRY WT)	51000	5300	91200	27300
	43.50	22.70	51.60	32.50
MISCELLANFOUS CHEMICAL DATA	:	•	•	•
CARBON, DRGANIC (GM C/KG DRY WT) NITROGEN, TOTAL KJELDAHL (MG N/KG) DIL & GREASE (MG/KG DRY WT)	15.980 942. 2340.	1.475 54.	34.270 1530.	34.990 954.
PHOSPHORUS. TOTAL (MG P/KG DRY WT)	50.60	41.20	172.00	44.70
HEAVY METALS	•	•	:	•
ARSENIC (MG AS/KG DRY WT) CADMIUM (MG CD/KG DRY WT) CHRUMIUM (MG CH/KG DRY WT)	0.06	<0.01	0.04	0.03
	<0.70	<0.50	<0.80	<0.60
	7.61	3.85	28.80	19.30
COPPER (MG CU/KG DRY WT) IRON (MG FE/KG DRY WT) LEAD (MG PB/KG DRY WT)	4.42	1.94	7.23	3.56
	22800.	2970.	9900.	17000.
	(0.50	<0.50	<0.50	<0.50
MANGANESE (MG MN/KG DRY WT) MERCURY (MG HG/ DRY WT) NICKEL (MG NI/KG DRY WT)	310.0	176.0	452.0	204.0
	0.09	<0.03	0.12	0.12
	2.48	1.26	3.10	<0.40
ZINC (MG ZN/KG DRY WT)	15.60	7.20	20.70	13.90
CHLORINATED HYDRUCARBUNS			•	•
ALDRIN (UG/KG DRY WT)	< 0.2	< 0.1	< 0.2	< 0.2
AROCLUR 1242 (UG/KG DRY WT)	< 1.0	< 0.5	< 1.0	< 1.0
AROCLOR 1254 (UG/KG DRY WT)	< 1.0	77.6	< 1.0	77.9
AROCLOR 1260 (UG/KG DRY NT)	365.0	41.2	48.9	< 1.0
BHC~ALPHA 150MER (UG/KG DRY NT)	< 6.2	< 0.1	< 0.2	< 0.2
BHC~BETA 150MER (UG/KG DRY NT)	< 0.2	< 0.1	< 0.2	< 0.2
BHC-GAMMA ISOMER (UG/KG DRY WT) CHLURDANE (UG/KG DRY WT) 2.4 D (UG/KG DRY WT)	< 0.2 < 0.8 . 275.	< 0.1 < 0.5 < 2.	< 0.2 < 1.0	< 0.2 < 1.0 < 4.
P.P' DDD (UG/KG DRY %T) P.P' DDE (UG/KG DRY WT) D.P' DDT (UG/KG DRY WT)	< 0.4	< 0.2	< 0.4	< 0.4
	< 0.2	< 0.5	< 0.2	< 1.0
	< 0.4	< 0.2	< 0.4	< 0.4
P.P. DOT (UG/KG DRY WT) DIFLORIN (UG/KG DRY WT) ENDOTHOL (UG/KG DRY WT)	< 0.4	< 0.2	< 0.4	< 0.4
	< 0.2	< 0.1	< 0.2	< 0.2
	< 0.5	< 0.5	< 0.5	< 0.5
ENDRIN (UG/KG DRY WT)	< 0.2	< 0.1	< 0.2	< 0.2
ENDRIN ALDEHYDE (UG/KG DRY WT)	< 0.2	< 0.1	< 0.2	< 3.2
GLYPHOSPHATE (UG/KG DRY WT)	< 1.0	< 1.0	< 1.0	< 1.0
HEPTACHLOR (UG/KG DRY WT) HEPTACHLOR EPOXIDE (UG/KG DRY WT) METHOXYCHLOR (UG/KG DRY WT)	< 0.2	< 0.1	< 0.2	< 0.2
	< 0.2	< 0.1	< 0.2	< 0.2
	< 0.4	< 0.2	< 0.4	< 0.4
MIREX (UG/KG DRY WT) PENTACHLORUPHENDL (UG/KG DRY WT) TUXAPHENE (UG/KG DRY WT)	, < 0.2	< 0.1	< 0.2	< 0.2
	. < 1.0	< 0.5	< 1.0	< 1.0
	. < 1.0	< 0.5	< 1.0	< 1.0

TABLE L-1d

PARAMETER NAME (UNITS)	574710N 13 8/14/78	14	STATION 15 8/14/78	STATION 16 8/14/75
PHYSICAL & CHEMICAL DATA				
PHYSICAL DATA	:			
LOSS ON IGNITION (MG/KG DRY WT) MOISTURE CUNTENT (% TOTAL DRY WT)	38800	127000	91900	13000
	27.90	69.00	62.70	26.60
MISCELLANEOUS CHEMICAL DATA				
CARBON. DRGANIC (GM C/KG DRY WT) NITROGEN, TOTAL KJELDAML (MG N/KG) DIL 6 GREASE (MG/KG DRY WT)	29.850 359.	88.880 4110. 4310.	53.860 1390. 2090.	13.460 248. 426.
PHOSPHORUS. TOTAL (MG P/KG DRY WT)	317.00	195.00	80.60	85.50
HEAVY METALS	•	, ,		
ARSENIC (MG AS/KG DRY WT) CADMIUM (MG CD/KG DRY WT) CHROMIUM (MG CR/KG DRY WT)	0.04	0.04	0.10	0.05
	<0.60	<1.10	<1.30	<0.50
	<1.40	65.30	6.70	<1.40
COPPER (MG CU/KG DRY WT) IRON (MG FE/KG DRY WT) LEAD (MG PB/KG DRY WT)	7.00	40.50	3.90	7.43
	15100.	63700.	8190.	5520.
	10.80	57.90	<0.50	<0.50
MANGANESE (MG MN/KG DRY WT) MERCURY (MG MG/ DRY WT) NICKEL (MG NI/KG DRY WT)	170.0	2600.0	371.0	190.0
	0.03	0.20	0.09	0.10
	4.85	40.33	5.23	4.70
ZINC (MG ZN/KG DRY WT)	20.80	123.00	19.70	26.60
CHLORINATED HYDROCARBONS	•		•	•
ALDRIN (UG/KG DRY WT)	< 0.2	< 0.3	< 0.3	< 0.2
APOCLOR 1242 (UG/KG DRY WT)	< 1.0	< 1.5	< 1.5	< 1.0
ARUCLUR 1254 (UG/KG DRY WT)	< 1.0	753.0	< 1.5	135.0
AHUCLUR 1260 (UG/KG DRY NT)	5.8	< 1.5	19.0	< 1.0
SHC-ALPHA ISOMER (UG/KG DRY NT)	< 3.2	< 0.3	< 0.3	< 0.2
BHC-BETA ISUMER (UG/KG DRY NT)	< 0.2	< 0.3	< 0.3	< 0.2
EHC-GAMMA ISOMER (UG/KG DRY WT)	< 0.2	< 0.3	< 0.3	< 0.2
CHLURDANE (UG/KG DRY WT)	< 1.0	< 1.5	< 1.5	< 1.0
2.4 D (UG/KG DRY WT)	< 4.	< 6.	< 6.	< 4.
P.P' DDD (UG/KG DRY %T) P.P' DDE (UG/KG DRY %T) U.P' DDT (UG/KG DRY WT)	< 0.4	< 0.6	< 0.6	< 0.4
	< 0.2	< 1.5	< 0.3	< 0.2
	< 0.4	< 0.6	< 0.6	< 0.4
P.P' DDT (UG/KG DRY WT) DIFLOPIN (UG/KG DRY WT) ENDOTHUL (UG/KG DRY WT)	< 0.4	< 0.6	< 0.6	< 0.4
	< 0.2	< 0.3	< 0.3	< 0.2
	< 0.5	< 0.5	< 0.5	< 0.5
ENDRIN (UG/KG DRY NT) ENDRIN ALDEHYDE (UG/KG DRY NT) GLYPHOSPHATE (UG/KG DRY NT)	< 0.2	< 0.3	< 0.3	< 0.2
	< 0.2	< 0.3	< 0.3	< 0.2
	< 1.0	< 1.0	< 1.0	< 1.0
HEPTACHLOR (UG/KG DRY WT) HEPTACHLOR EPOXIDE (UG/KG DRY WT) METHOXYCHLOR (UG/KG DRY WT)	< 0.2	< 0.3	< 0.3	< 0.2
	< 0.2	< 0.3	< 0.3	< 0.2
	< 0.4	< 0.6	< 0.6	< 0.4
MIREX (UG/KG DRY WT) PENTACHLDROPHENDL (UG/KG DRY WT) TCXAPHENE (UG/KG DRY WT)	< 0.2 < 1.0	< 0.3 < 1.5 < 1.5	< 0.3 < 0.5 < 1.5	< 0.2 < 0.5 < 1.0

TABLE L-1e

PARAMETER NAME (UNITS)		STATION 19 6/16/78	• 19 •
PHYSICAL DATA	•	•	
LOSS ON IGNITION (NG/KG DRY WT) MUISTUPE CONTENT (% TOTAL DRY WT	1700 16.50	15800 13.90	5400 19.10
MISCELLANEOUS CHEMICAL DATA	•	•	
CARBON, ORGANIC (GM C/KG DRY WT) NITROGEN, TOTAL KJELDAHL (MG N/KG) DIL E GREASE (MG/KG DRY WT)	0.546 50. 377.	407. 110.	2.283 346. 297.
PHOSPHORUS, TOTAL (MG P/KG DRY WT)	28.60	80-10	53.00
HEAVY METALS	•	•	:
ARSENIC (MG AS/KG DRY WT) CADMIUM (MG CD/KG DRY WT) CHROMIUM (MG CR/KG DRY WT)	0.03 <0.50 10.80	<0.50 <1.20	0.03 <0.50 <1.20
COPPER (MG CU/KG DRY WT) IRON (MG FE/KG DRY WT) LEAD (MG PB/KG DRY WT)	<0.60 1280. <0.50	2.38 2090. <0.50	1.85 2180. <0.50
MANGANESE (MG MN/KG DRY WT) MERCURY (MG MG/KG DRY WT) NICKEL (MG NI/KG DRY WT)	72.5 0.06 1.14	172.0	261.0 0.06 31.50
ZINC (MG ZN/KG DRY WT)	3.59	7.03	5.69
CHLORINATED HYDROCARBONS	•	•	:
ALDRIN (UG/KG DRY WT) APGCLOR 1242 (UG/KG DRY WT) APOCLOR 1254 (UG/KG DRY WT)	< 0.1 < 0.5 +1.4	< 0.1 < 0.5 < 0.5	< 0.1 < 0.5 < 0.5
APOCLOR 1260 (UG/KG DRY WT) BHC-ALPHA ISOMER (UG/KG DRY WT) BHC-BETA ISOMER (UG/KG DRY WT)	< 0.5 < J.1 < 0.1	147.0 < 0.1 < 0.1	196.0 < 0.1 < 0.1
BHC-GAMMA ISOMER (UG/KG DRY WT) CHLORDANE (UG/KG DRY WT) 2,4 D (UG/KG DRY WT)	< 0.1 < 0.5 < 2.	< 0.1 < 0.5 < 2.	< 0.1 < 0.5 < 2.
P.P' DDD (UG/KG DRY WI) P.P' DDE (UG/KG DRY WI) D.P' DDI (UG/KG DRY WI)	< 0.2 < 0.5 < 0.2	< 0.2 < 0.1 < 0.2	< 0.2 < 0.1 < 0.2
P.P' DDT (UG/KG DRY WT) DIELDRIN (UG/KG DRY WT) ENDOTHOL (UG/KG DRY WT)	< 0.2 < 0.1 < 0.5	< 0.2 < 0.1 < 0.5	< 0.2 < 0.1 < 0.5
ENDRIN (UG/KG DRY WT) ENDRIN ALDEHYDE (UG/KG DRY WT) GLYPHOSPHATE (UG/KG DRY WT)	< 0.1 < 0.1 < 1.0	< 0.1 < 0.1 < 1.0	< 0.1 < 0.1 < 1.0
HEPTACHLOR (UG/KG DRY WT) HEPTACHLOR EPOXIDE (UG/KG DRY WT) METHOXYCHLOR (UG/KG DRY WT)	< 0.1 < 0.1 < 0.2	< 0.1 < 0.1 < 0.2	< 0.1 < 0.1 < 0.2
MIREX (UG/KG DRY %T) PENTACHLOROPHENOL (UG/KG DRY %T) TOXAPHENE (UG/KG DRY WT)	< 0.1 2.4 < 0.5	< 0.1 < 0.5 < 0.5	< 0.1 < 0.5 < 0.5

** LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY **
CHIPPS OF ENGINEERS (CONTRACT DACFO1-78-C-0101) PHASE I. CYCLE &
SEDIMENT SAMPLING RESULTS

TABLE L-2a

PARAMETER NAME (UNITS)	STATIUN 01 8/17/76	STATION 02 9/17/78	STATION 03 9/17/76	STATION 04 8/17/78
MECHANICAL DATA				
SIEVE ANALYSIS	•			
UED MTL (X FINER THAN 38-1 MM) UED MTL (X FINER THAN 25-4 MM) UED MTL (X FINER THAN 19-1 MM)	100.0 100.0 96.0	100.J 100.J 96.4	133.0 95.3 88.7	107.0 107.0 107.0
GFD MTL (% FINER THAN 9.5 MM) BFD MTL (% FINER THAN 2.0 MM) BED MTL (% FINER THAN 0.42 MM)	85.2 76.20 22.00	92.5 75.30 30.70	85.0 74.10 27.60	99.6 73.30 67.30
UED MTL (X FINER THAN 0.074 MM)	0.83	ค. 05	0.30	19.60
HYDRUMETER ANALYSIS				
EUUIVALENT FALL DIA (MICRUNS) X FINER THAN	27. 0.61	37. 1.20	37. 0.30	2.00
FOUTVALENT FALL DIA (MICRONS) X FINER THAN	23.	23.	23.	23. 1.67
EQUIVALENT FALL DIA (MICRONS) % FINER THAN	13.4	13.0	13.0	17.4 1.60
EQUIVALENT FALL DIA (MICRONS) % FINER THAN	9.5	9.5 3.90	0.00	1.60
FOULVALENT FALL DIA (MICRONS) % FINER THAN	6.7 0.31	6.7 0.93	0.00	1.20
EQUIVALENT FALL DIA (MICRONS) X FINER THAN	3.4	3.4 0.93	9.0)	1.20
EQUIVALENT FALL DIA (MICRONS) % FINFR THAN	1.40	1.43	1.40	1.40

TABLE L-2b

PARAMETER NAME (UNITS)	STATION	STATION 06 8/17/78	STATIUN 37 8/16/78	STATION JA B/16/79
MECHANICAL DATA SIEVE ANALYSIS	•			
STOR ARACTS S  SED MIL (% FINER THAN 38-1 MM) HO MIL (% FINER THAN 25-4 MM) BLD MIL (% FINER THAN 19-1 MM)	100.0 97.5 95.2	100.0 100.0 100.0	100.0 100.0 100.0	100.0 100.0 100.0
BED MTL (% FINER THAN 9.5 MM) BUD MTL (% FINER THAN 2.0 MM) BUD MTL (% FINER THAN 0.42 MM)	95. A 81.50 37.20	100.0 97.30 40.00	100.0 97.50 73.50	10/.0 99.60 47.30
BED MIL (* FINER THAN 0.074 MM) HYDRUMLIER ANALYSIS	3.30	5.70	16.20	7.99
• EQUIVALENT FALL DIA (MICRONS) • % FINER THAN	37. 1.63	37. 1.95	35. 7.75	35. 6.72
FOULVALENT FALL DIA (MICRONS) % FINER THAN	23. 1.63	23. 1.56	7.00	22. 6.30
PEQUIVALENT FALL DIA (MICRONS)  X FINEP THAN	13.4	13.4 1.56	13.0 5.83	15.0 5.50
FOULVALENT FALL DIA (MICRONS)	1.30	9.5	9.0 5.40	9.1 4.75
* COUIVALENT FALL DIA (MICRONS) * % FINER THAN	1.30	6.7 1.56	4.63	6.5 4.75
LOUIVALENT FALL DIA (MICRONS) X FINER THAN	3.4	3.4 1.17	3.2 3.90	3.3 3.16
* EQUIVALENT FALL DIA (MICRUNS) * & FINER THAN *	1.40	1.40	1.30	1.30

TABLE L-2c

PARAMETER NAME (UNITS)	STATION 59	STATION 10 8/15/78	STATION 11 8/16/78	STATION 12 8/15/78
MECHANICAL DATA	•	•	•	•
SIEVE ANALYSIS	:	•	•	:
BED MTL (* FINER THAN 39-1 MM) UFD MTL (* FINER THAN 25-4 MM) UID MTL (* FINER THAN 19-1 MM)	100.0 100.0 100.0	100.0 100.0 100.0	100.0 103.J 100.0	100.0 100.0
BED MTL (% FINER THAN 9.5 MM) BELD MTL (% FINER THAN 2.0 MM) BED MTL (% FINER THAN 0.42 MM)	100.0 100.00 92.30	100.0	100.00 100.00 71.20	133.0 98.70 70.10
RED MIL (% FINER THAN 0.074 MM)	41.80	14.83	66.50	12.50
HYDROMFTER ANALYSIS	:	•	•	:
FOUTVALENT FALL DIA (MICRONS) % FINUR THAN	33.30	36. 4.00	27. 45.2)	35. 7.90
EUUIVALENT FALL DIA (MICRONS) Y FINER THAN	18. 32.50	23.	17.	6.30
FOUTVALENT FALL DIA (MICRONS) % FINER THAN	26.20	13.2	10.0	17.0
FINER THAN	7.9 25.80	9.3 2.80	7.0 36.90	7.2 3.90
COUIVALENT FALL DIA (MICHONS) % FINER THAN	20.63	6.6 2.9J	32.10	2.75
FOULVALENT FALL DIA (MICRONS) FINEW THAN	3.1 9.50	2.00	2.8	2.20
FEGULYALENT FALL DIA (MICRONS) * % FINER THAN	1.30	1.35	1.20	1.30

TABLE L-2d

PARAMETER NAME (UNITS)	STATION 13 13 8/14/78	STAT (UN 14 8/15/78	15	STATION 16 9/14/78
MECHANICAL DATA				•
SIEVE ANALYSIS			,	
BED MIL (% FINER THAN 38-1 MM) SED MIL (% FINER THAN 25-4 MM) SED MIL (% FINER THAN 19-1 MM)	100.0 100.0 100.0	100.0	100.0 100.0	100.0 100.0
BED MTL (% FINER THAN 9.5 MM) BED MTL (% FINER THAN 2.0 MM) BED MTL (% FINER THAN 0.42 MM)	99.9 97.10 73.60	100.0 100.00 43.40	100.0 100.00 81.60	91.0 91.30 22.50
BED MTL (% FINER THAN 0.074 MM)	19.40	25.00	25.37	12.10
HYDRUMETER ANALYSIS				
EQUIVALENT FALL DIA (MICRONS) X FINER THAN	34. 17.70	31. 23.83	32. 20.30	34. 13.20
EQUIVALENT FALL DIA (MICRONS) X FINER THAN	21. 10.50	20 • 22 • 20	20 • 19 • 90	22. 10.20
LQUIVALENT FALL DIA (MICRONS) . X FINER THAN	12.5 10.10	12.3 19.30	12.0 17.50	13.0 9.40
EQUIVALENT FALL DIA (MICRONS) X FINER THAN	8.9	8.6 15.90	8.5 17.10	9.0 7.25
FOUTVALENT FALL DIA (MICRONS)  * FINER THAN	6.2 9.30	6.1 14.30	6.1 14.70	6.50
FOULVALENT FALL DIA (MICRONS) % FINER THAN	3.2 6.20	3.1 11.90	3.1 12.70	3.2 4.35
• EQUIVALENT FALL DIA (MICRONS) • % FINER THAN	1.30 3.10	1.33 7.93	1.30 7.50	2.20

TABLE L-2e

PARAMETER NAME (UNITS)	STATION 17 8/14/78	STATION 19 8/16/78	STATICH 19 8/16/78
MECHANICAL DATA			
SIEVE ANALYSIS	•		
UEC MTL (X FINER THAN 38-1 NM) DED MTL (X FINER THAN 25-4 MM) BED MTL (X FINER THAN 19-1 MM)	100.0	100 - U 98 - 3 73 - 9	100.0 90.6 89.9
BED MTL (X FINER THAN 9.5 MM) EED MTL (X FINER THAN 2.0 MM) BED MTL (X FINER THAN 0.42 MM)	100.0 99.00 66.00	64.6 33.13 7.40	88.8 70.60 14.00
BED MTL (X FINER THAN 0.074 MM)	6.33	3.36	1.80
HYDROMETEP ANALYSIS	•		
EQUIVALENT FALL DIA (MICHONS) % FINER THAN	34. 2.39	37. 0.24	37. 1.13
EQUIVALENT FALL DIA (MICRUNS) X FINER THAN	1.59	23. 0.24	23. 1.13
EQUIVALENT FALL DIA (MICRONS) X FINER THAN	13.4	13.0	13.4
LUUIVALENT FALL DIA (MICRUNS) X FINER THAN	9.5	9.5	9.5 1.13
LGUIVALENT FALL DIA (MICRONS)  * FINE - THAN  *	1.19	6.7 0.12	0.85
FOULVALENT FALL DIA (MICRONS) % FINER THAN	1.19	3.4 0.12	0.85
* EDUIVALENT FALL DIA (MICRONS) * X FINER THAN	1.40	1.43	0.57

FIGURE L-1a. SEDIMENT GRADATION CURVE, STATION 1, CYCLE 4, AUGUST 14-19, 1978.

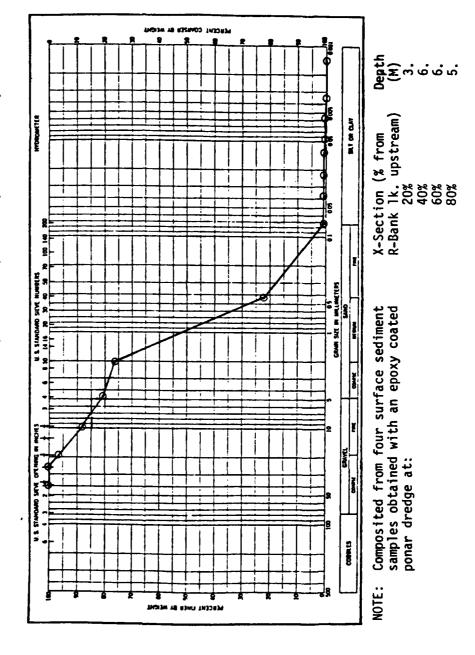
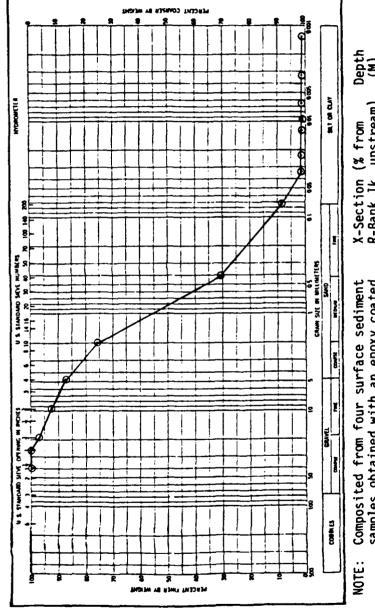


FIGURE L-1b. SEDIMENT GRADATION CURVE, STATION 2, CYCLE 4, AUGUST 14-19, 1978.



X-Section (% from R-Bank Ik. upstream) 20% 40% 60% 80% Composited from four surface sediment samples obtained with an epoxy coated ponar dredge at:

Depth (M) 5. 5. 6. 6.

FIGURE L-1c. SEDIMENT GRADATION CURVE, STATION 3, CYCLE 4, AUGUST 14-19, 1978.

₹ **4** 

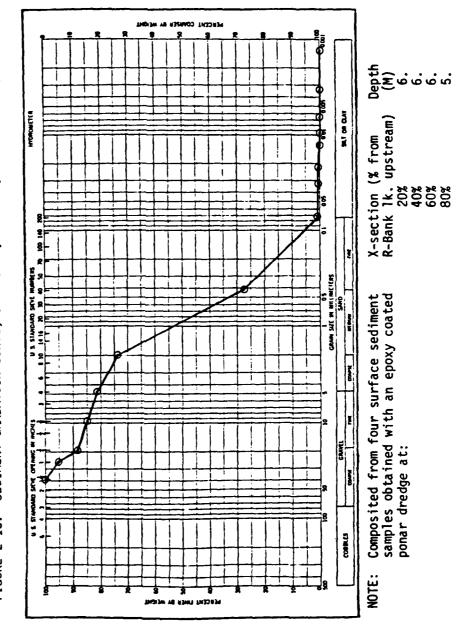
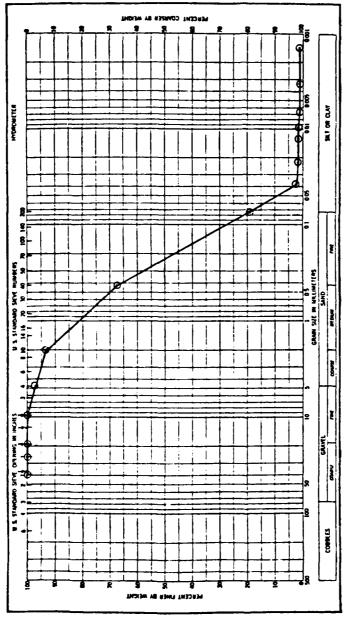


FIGURE L-1d. SEDIMENT GRADATION CURVE, STATION 4, CYCLE 4, AUGUST 14-19, 1978.



NOTE: Composited from four surface sediment X-section (% from samples obtained with an epoxy coated R-bank lk. upstream) ponar dredge at: 20%

X-section (% from Depth R-bank lk. upstream) (M) 20% 5. 40% 5. 60% 5.

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FIGURE L-1e. SEDIMENT GRADATION CURVE, STATION 5, CYCLE 4, AUGUST 14-19, 1978.

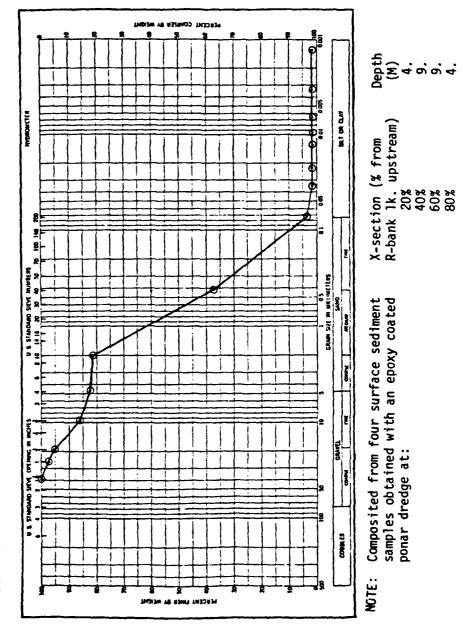
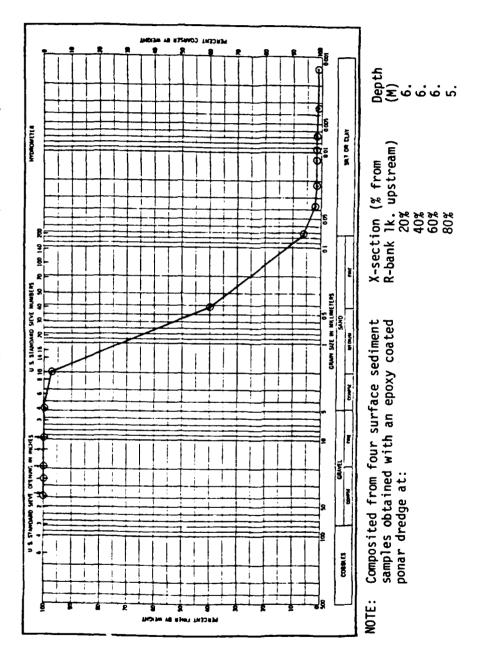
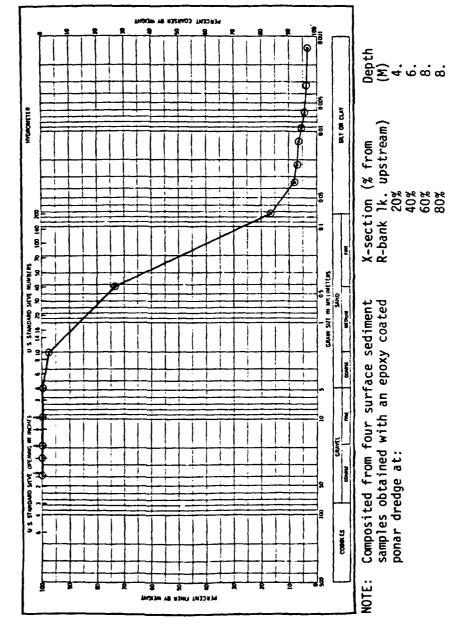


FIGURE L-1f. SEDIMENT GRADATION CURVE, STATION 6, CYCLE 4, AUGUST 14-19, 1978.

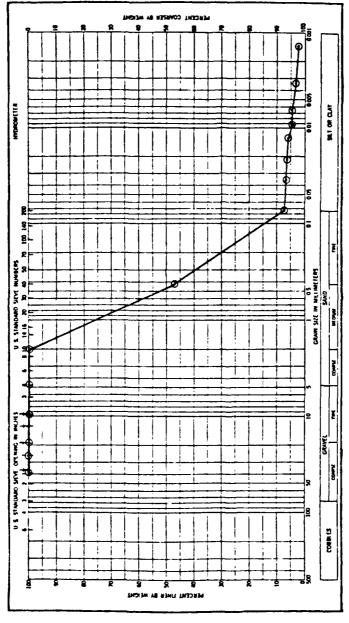


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SEDIMENT GRADATION CURVE, STATION 7, CYCLE 4, AUGUST 14-19, 1978. FIGURE L-1g.

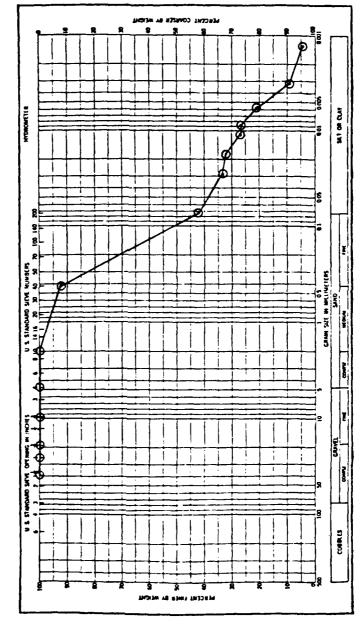


SEDIMENT GRADATION CURVE, STATION 8, CYCLE 4, AUGUST 14-19, 1978. FIGURE L-1h.



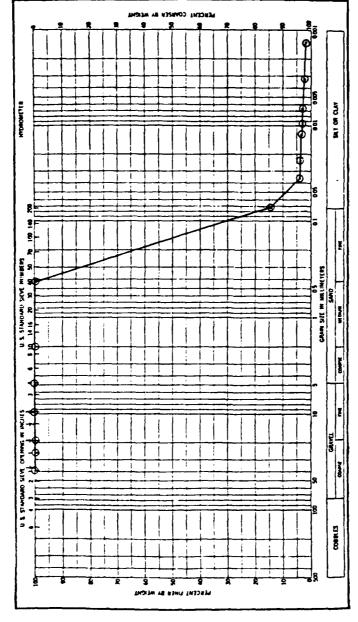
Composited from four surface sediment samples obtained with an epoxy coated ponar dredge taken 90° apart on a 20-foot diameter circle at a depth of 2. meters. NOTE:

I



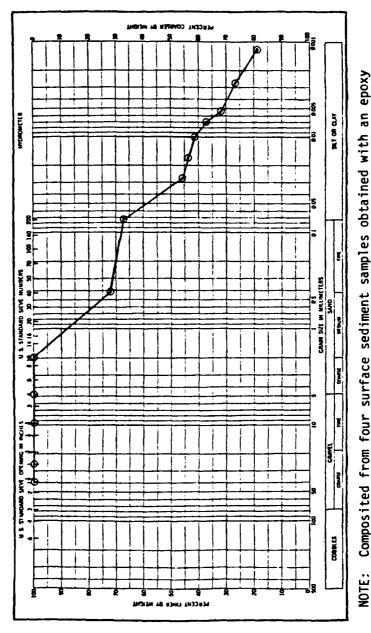
Composited from four surface sediment samples obtained with an epoxy coated ponar dredge taken 90° apart on a 20-foot diameter circle at a depth of 6. meters. NOTE:

FIGURE L-1j. SEDIMENT GRADATION CURVE, STATION 10, CYCLE 4, AUGUST 14-19, 1978.



Composited from four surface sediment samples obtained with an epoxy coated ponar dredge taken 90° apart on a 20-foot diameter circle at a depth of 1.8 meters. NOTE:

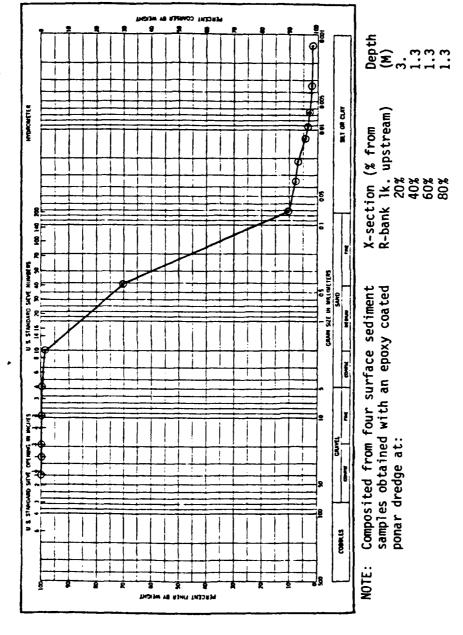
SEDIMENT GRADATION CURVE, STATION 11, CYCLE 4, AUGUST 14-19, 1978. FIGURE L-1k.



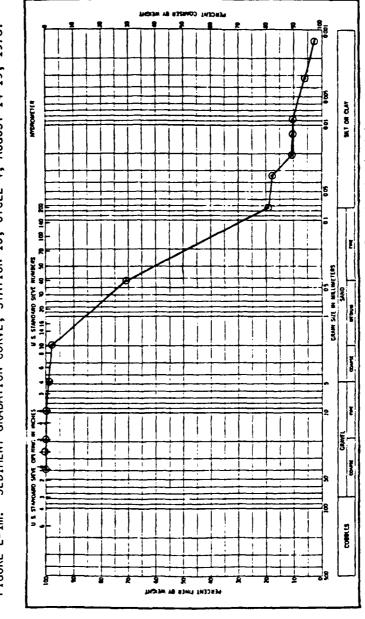
Composited from four surface sediment samples obtained with an epoxy coated ponar dredge taken 90° apart on a 20-foot diameter circle at a depth of 6. meters.

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SEDIMENT GRADATION CURVE, STATION 12, CYCLE 4, AUGUST 14-19, 1978. FIGURE L-11.

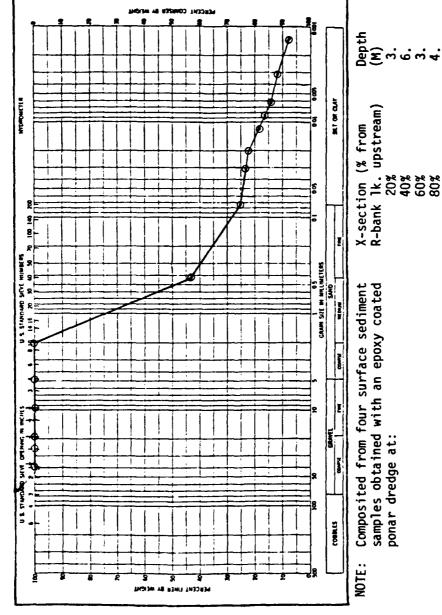


SEDIMENT GRADATION CURVE, STATION 13, CYCLE 4, AUGUST 14-19, 1978. FIGURE L-1m.



Composited from four surface sediment samples obtained with an epoxy coated ponar dredge taken 90° apart on a 20-foot diameter circle at a depth of 5. meters.

FIGURE L-1n. SEDIMENT GRADATION CURVE, STATION 14, CYCLE 4, AUGUST 14-19, 1978.



Composited from four surface sediment samples obtained with an epoxy coated ponar dredge at:

X-section (% from R-bank lk. upstream) 20% 40% 60% 80%

FIGURE L-10. SEDIMENT GRADATION CURVE, STATION 15, CYCLE 4, AUGUST 14-19, 1978.

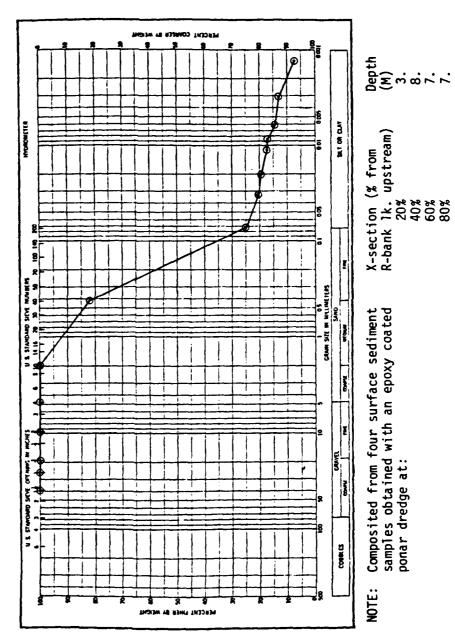


FIGURE L-1p. SEDIMENT GRADATION CURVE, STATION 16, CYCLE 4, AUGUST 14-19, 1978.

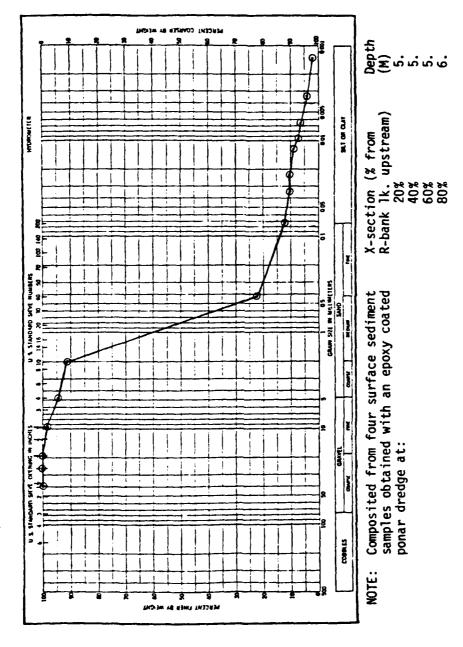
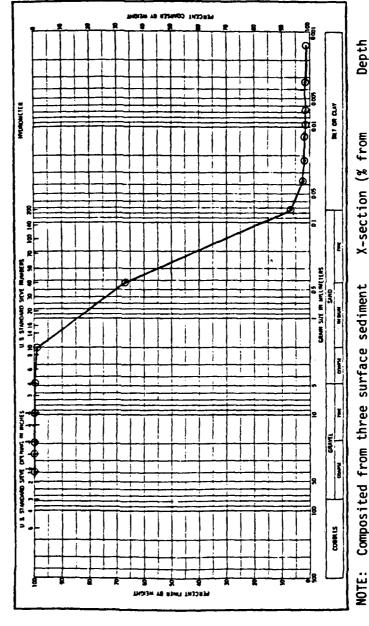


FIGURE L-1q. SEDIMENT GRADATION CURVE, STATION 17, CYCLE 4, AUGUST 14-19, 1978.

1



Depth (M) 4. 4. X-section (% from R-bank lk. upstream) 40% 60% 80% Composited from three surface sediment samples obtained with an epoxy coated ponar dredge at:

SEDIMENT GRADATION CURVE, STATION 18, CYCLE 4, AUGUST 14-19, 1978. FIGURE L-1r.

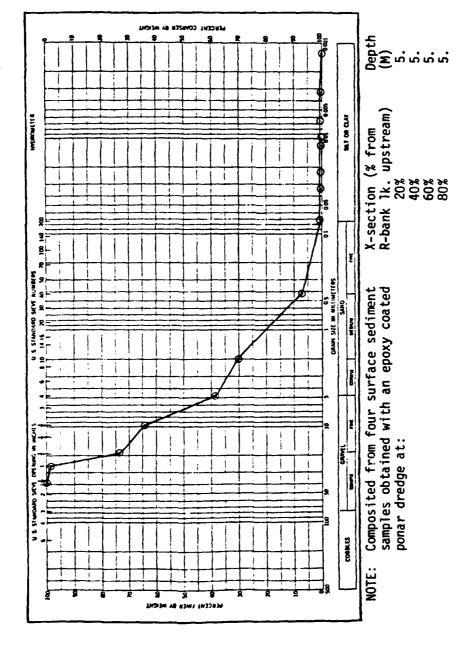
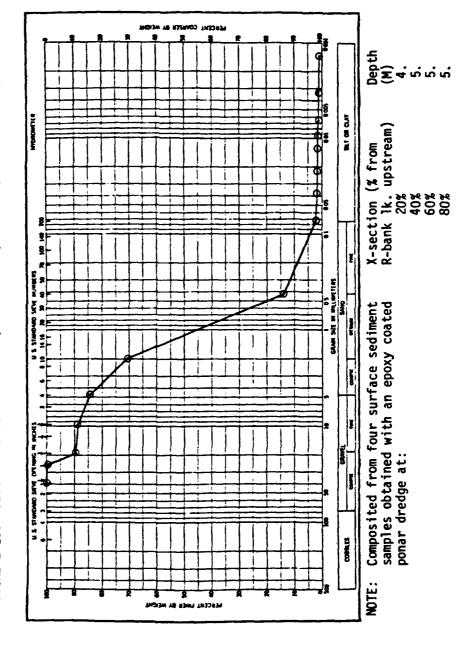


FIGURE L-1s. SEDIMENT GRADATION CURVE, STATION 19, CYCLE 4, AUGUST 14-19, 1978.

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APPENDIX M
AQUATIC MACROPHYTES

### LIST OF TABLES

TABLE	DESCRIPTION	PAGE NO.
M-1	Aquatic Macrophytes Noted to be Common To Abundant in Lake Seminole During the 1978 Field Surveys	M-1
M-2	Approximate Percent Cover of the Dominant Aquatic Macrophytes Observed in Various Areas of Lake Seminole, 1978	M-3

# TABLE M-1 AQUATIC MACROPHYTES NOTED TO BE COMMON TO ABUNDANT IN LAKE SEMINOLE DURING THE 1978 FIELD SURVEYS

Algae	S*	Ε	F
<pre>Chara spp.; chara Lyngbya/Spirogyra; algal mat Nitella spp.; nitella</pre>	x x		x
Vascular	^		
Justicia americana; water willow		x	
Sagittaria latifolia; common arrowhead		X	
Alternanthera philoxeroides; alligator-weed		X	
Colocasia esculenta; wild taro		X	
Orontium aquaticum; goldenclub		X	
Alnus serrulata; speckled alder		X	
Betula nigra; river birch		X	
Brasenia schreberi; watershield		X	
Cabomba caroliniana; fanwort	X		
Sphencclea zeylandica; chicken spike		X	
Ceratophyllum demersum; common coontail Ceratophyllum echinatum; prickly coontail	X		
Mikania scandens; climbing hempweed	x	U	
Carex spp.; sedges		X X	
Cyperus spp.; sedges		x	
Eleocharis acicularis; slender spikerush		x	
Eleocharis cellulosa; spikerush		X	
Eleocharis equisetodes; knotted spikerush		X	
Hydrochloa carolinensis; water grass		Х	
Leersia hexandra; cutgrass		X	
Panicum hemitomum; maidencane		X	
Panicum repens; torpedograss		X	
<u>Zizaniopsis</u> <u>miliaceae</u> ; giant cutgrass		X	
Hypericum spp.; St. Johns wort		X	
Myriophyllum brasiliense; parrotfeather	X		
Myriophyllum spicatum; Eurasian watermilfoil	X		
Egeria densa; elodea	X		
Hydrilla verticillata; hydrilla	X		
Vallisneria americana; eelgrass	X	.,	
Juncus effusus; soft rush Juncus spp.; rushes		X X	
Lemna perpusilla; common duckweed		×	х
Spirodela polyrhiza; giant duckweed			x

### TABLE M-1 (continued)

	S	Ε	F
Utricularia floridana; giant bladderwort	x		
Utricularia inflata; purple bladderwort	×		
Utricularia purpurea; floating bladderwort	X		
Mayaca fluviatilis; bog moss	X		
Nymphoides aquaticum; banana lily		x	
Myrica cerifera; wax myrtle		X	
Najas guadalupensis; southern naiad	x		
Najas minor; naiad	x		
Nelumbo lutea; American lotus		х	
Nuphar advena; spatterdock		x	
Nymphaea odorata; fragrant waterlily		x	
Nyssa aquatica; swamp tupelo		X	
Nyssa ogeche; ogeche tupelo		x	
Ludwigia decurrens; singed waterprimrose		x	
Ludwigia leptocarpa; waterprimrose		x	
Ludwigia palustris; water purslane		X	
Ludwigia peruviana; waterprimrose		X	
Platanus occidentalis; sycamore		X	
Polygonum spp.; smartweeds		X	
<u>Eichorrnia</u> crassipes; water hyacinth			X
Pontedaria cordata; pickerelweed		X	
Pontedaria lanceolata; southern pickerelweed		X	
Potamogeton diversifolius; snailseed pondweed		х	
Potamogeton illinoiensis; Illinois pondweed	X		
Potamogeton nodosus; American pondweed		X	
Cephalanthus occidentalis; buttonbush		X	
Salix caroliniana; coastal plain willow		X	
Salix nigra; black willow		X	
Saururus cernuus; lizard's tail		X	
Bacopa caroliniana; water mint	X		
Sparganium americanum; burreed		X	
Taxodium ascendens; pond cypress		X	
Taxodium distichum; bald cypress		X	
Typha domingensis; southern cattail		X	
Typha latifolia; cattail		X	
Hydrocotyle ranunculoides; splitleaf pennywort			X
Xyris spp.; yellow-eyed grass		X	

^{*} S = Submersed E = Emergent F = Floating

### TABLE M-2

## APPROXIMATE PERCENT COVER OF THE DOMINANT AQUATIC MACROPHYTES OBSERVED IN THE VARIOUS AREAS OF LAKE SEMINQLE, 1978

	<u>s</u> *	<u>E</u>	<u>F</u>
Chattahoochee River Area			
Egeria densa; egeria or elodea Zizaniopsis miliaceae; giant cutgrass Justicia americana; water willow Colocasia esculenta; wild taro Sphenoclea zeylandica; chicken spike Eichorrnia crassipes; water hyacinth	P	90 P P 5	P
Game Management Area			
Myriophyllum spicatum; Eurasian watermilfoil Myriophyllum brasiliensis; parrotfeather Cabomba caroliniana; fanwort Potamogeton illinoiense; Illinois pondweed Najas minor; naiad Najas quadalupensis; southern naiad Hydrilla verticillata; hydrilla Utricularia spp.; bladderworts Ceratophyllum demersum; common coontail Bacopa caroliniana; water mint Nymphaea odorata; fragrant water lily Brasenia schreiberi; water shield Polygonum spp.; smartweeds Pontedaria cordata; pickerelweed Panicum repens; torpedograss Panicum hemitomum; maidencane Leersia hexandra; cutgrass Eleocharis spp.; spikerushes Zizaniopsis miliaceae; giant cutgrass Eichorrnia crassipes; water hyacinth Hydrocotyle ranunculoides; splitleaf pennywort Lemna perpusilla; common duckweed	75 55 55 P P P P	5 5 P P 5 5 P 10	P P
Fish Pond Drain Area			
Hydrilla verticillata; Hydrilla Cabomba caroliniana; fanwort Najas spp; naiads Potamogeton illinoiense; Illinois pondweed Nitella sp.; nitella Panicum repens; torpedograss	75 P 5 5 P		

### TABLE M-2 (continued)

Panicum hemitomum; maidencane Leersia hexandra; cutgrass Typha spp.; cattails Nuphar advena; spatterdock Nymphaea odorata; fragrant water lily Brasenia schreiberi; watershield Nymphoides aquaticum; banana lily Nelumbo lutea; American lotus	<u>S</u> P P P	<u>E</u> P P P P P	<u>F</u>
Turkey Pond Drain  Hydrilla verticillata; hydrilla  Potamogeton illinoiense; Illinois pondweed  Myriophyllum brasiliense; Eurasian watermilfoil  Limnophila sessiliflora; limnophila  Chara sp.; chara  Nitella sp.; nitella  Typha spp.; cattails  Panicum repens; torpedograss  Panicum hemitomum; maidencane  Leersia hexandra; cutgrass  Pontedaria cordata; pickerelweed  Eichorrnia crassipes; water hyacinth	70 15 5 P P	P P P P	p
Myriophyllum spicatum; Eurasian watermilfoil Hydrilla verticillata; hydrilla Ceratophyllum demersum; coontail Potamogeton illinoiense; Illinois pondweed Chara spp.; chara Cabomba caroliniana; fanwort Typha spp.; cattails Zizaniopsis miliaceae; giant cutgrass Panicum repens; torpedograss Panicum hemitomum; maidencane Justicia americana; water willow Eleocharis spp.; spikerushes Pontedaria cordata; pickerelweed Nyssa spp.; tupelo Taxodium spp.; cypress Cephalanthus occidentalis; buttonbush Saururus cernuus; Lizard's-tail Nymphaea odorata; fragrant water lily	75 5 10 P	5 5 P P P P P P P P P 5	

### TABLE M-2 (continued)

Brasenia schreiberi; water shield Nymphoides aquaticum; banana lily Nelumbo lutea; American lotus Potamogeton nodosus; American pondweed Potamogeton diversifolius; snailseed pondweed Eichorrnia crassipes; water hyacinth Lemna perpusilla; common duckweed	<u>s</u>	E P P 5 P	<u>F</u> P P
Lower Spring Creek Area  Myriophyllum spicatum; Eurasian watermilfoil Potamogeton illinoiense; Illinois pondweed	75 20		
Typha spp.; cattails  Leersia hexandra; cutgrass  Nymphaea odorata; fragrant water lily  Eichorrnia crassipes; water hyacinth	20	P P P	Р
Spring Creek Area			
Myriophyllum spicatum; Eurasian watermilfoil Potamogeton illinoiense; Illinois pondweed Najas spp.; naiads Typha spp.; cattails Nuphar advena; spatterdock Ludwigia spp.; water primroses Eichorrnia crassipes; water hyacinth	90 5 P	P P P	P
Silver Lake Area			
Myriophyllum spicatum; Eurasian watermilfoil Hydrilla verticillata; hydrilla Najas spp.; naiads Potamogeton illinoiense; Illinois pondweed Typha spp.; cattails Zizaniopsis miliaceae; giant cutgrass Panicum repens; torpedograss Panicum hemitomum; maidencane Leersia hexandra; cutgrass Eichorrnia crassipes; water hyacinth Hydrocotyle ranunculoides; splitleaf pennywort	75 5 5 5	P P P P	P P
Flint River Area	n		
Myriophyllum spicatum; Eurasian watermilfoil Myriophyllum brasiliense; parrotfeather Najas spp.; naiads	P P P		

### TABLE M-2 (Continued)

	<u>s</u>	<u>E</u>	<u>F</u>
Lyngbya-Spyrogyra algal mats	10		
Zizaniopsis miliaceae; giant cutgrass		5	
Typha spp.; cattails		P	
Alternanthera philoxeroides; alligatorweed		P	
Eichorrnia crassipes; water hyacinth			5
Hydrocotyle ranunculoides; splitleaf pennywort			Р
Lemna perpusilla; common duckweed			Р
Spirodela polyrhiza; giant duckweed			P

^{*}S = Submerged E = Emergent F = Floating

# END

# DATE FILMED OF STREET

DTIC